

LIBRARY.

RECEIVE

MAR 29

U. S. Department of Agriculture

THE NATIONAL PROVISIONER.

The Organ of the Provision and Meat Industries of the United States.

Entered at the Post Office, New York, and admitted for Transmission through the Mails at Second-Class Rates.

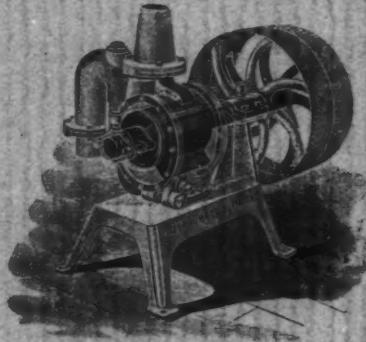
NEW YORK CITY: 284-286 Pearl Street. | PUBLISHED WEEKLY. | CHICAGO: Room 11, Rialto Building, 135-153 Van Buren Street.

Vol. XVI.—No. 13.

NEW YORK AND CHICAGO, SATURDAY, MARCH 27, 1897.

Subscription, \$4.00 Per Year.
Single Copies, Ten Cents.

ARE THE BEST AND CHEAPEST
Spices 393, 395 & 397 GREENWICH ST.,
NEW YORK.



ESTABLISHED 1857

ROHE & BROTHER, PORK AND BEEF PACKERS AND LARD REFINERS.



ESTABLISHED 1857

CURERS OF THE
CELEBRATED "REGAL" HAM, BREAKFAST BACON AND SHOULDER.

Manufacturers of the famous brand "PURITY" Lard.

Goods for Export and Home Trade in any desired package.

MAIN OFFICE: 264, 266, 268 WEST 33d STREET.

EXPORT OFFICE: 344 Produce Exchange.

PACKING HOUSES,
264, 266, 268 West 38d Street. 534 to 540 West 37th Street.
533 to 543 West 36th Street. 547 to 549 West 35th Street.

NEW YORK.

CASINGS, HOG & BEEF

NELSON MORRIS & CO.,

U. S. Yards, Chicago.—13 Jay St., New York.

Carefully cleaned.

Quality the best.

HIGHEST PRICES
PAID FOR

GALFSKINS

A SPECIALTY.

CONSIGNMENTS SOLICITED.

Hides, Horsehides, Tallow, Etc.

SHEEP AND LAMB SKINS, PELTS.

JOSEPH HABERMAN,

623 to 627 West 40th Street, NEW YORK CITY.

I wish to make arrangements with some Hide Buyer, Merchant Butcher, or Trader in every Village in the United States and Canada to

"WE BELIEVE that in
extent of light-weight
raw material collected and
carried, Mr. Page holds the
lead of any competitor."
—Sase and Leather Register.

MR. PAGE is, without
question, the largest
holder of Calfskins in the
trade in this country."
—The National Provisioner.

SEND ME THE
CALF SKINS
COLLECTED IN
THEIR VICINITY
CARROLL S. PAGE,
HYDE PARK, V.T.

"THE LARGEST Dealer
in Raw Calfskins in the
world."
—Hide and Leather

CARROLL S. PAGE per-
haps is the oldest deal-
er in Calfskins now in the
trade, and is certainly one of
the most reliable.

—The National Provisioner.

SEE WEIR & CRAIG MANUFACTURING CO.'S ADVERTISEMENT, PAGE 24.

REMINGTON MACHINE COMPANY, Wilmington,
Delaware.
REFRIGERATING AND ICE MAKING MACHINERY.

BUILDERS OF

ICE PLANTS by both the CAN and PLATE
Systems.

We carry a large stock of Ammonia Valves
and Fittings also wide pattern return bends for
brine circulation. Send for prices.



We have the MOST SUCCESSFUL SYSTEM
of Mechanical Refrigeration for Abattoirs, Cold
Storage Houses, Pork Packers, Markets, Butchers,
Breweries, Hotels, and for ALL PURPOSES to
which refrigeration can be applied.

J. F. BEHN.

CARL BEHN.

THE BUFFALO REFRIGERATING MACHINE CO.

CONTRACTS TAKEN FOR
ARTIFICIAL ICE, REFRIGERATING AND COLD STORAGE PLANTS.

General Offices: 28 and 29 City Bank Building, 319 Main Street, Buffalo, N. Y.

New York Office: 52 JOHN ST.

Philadelphia Office: 435 CHESTNUT ST.

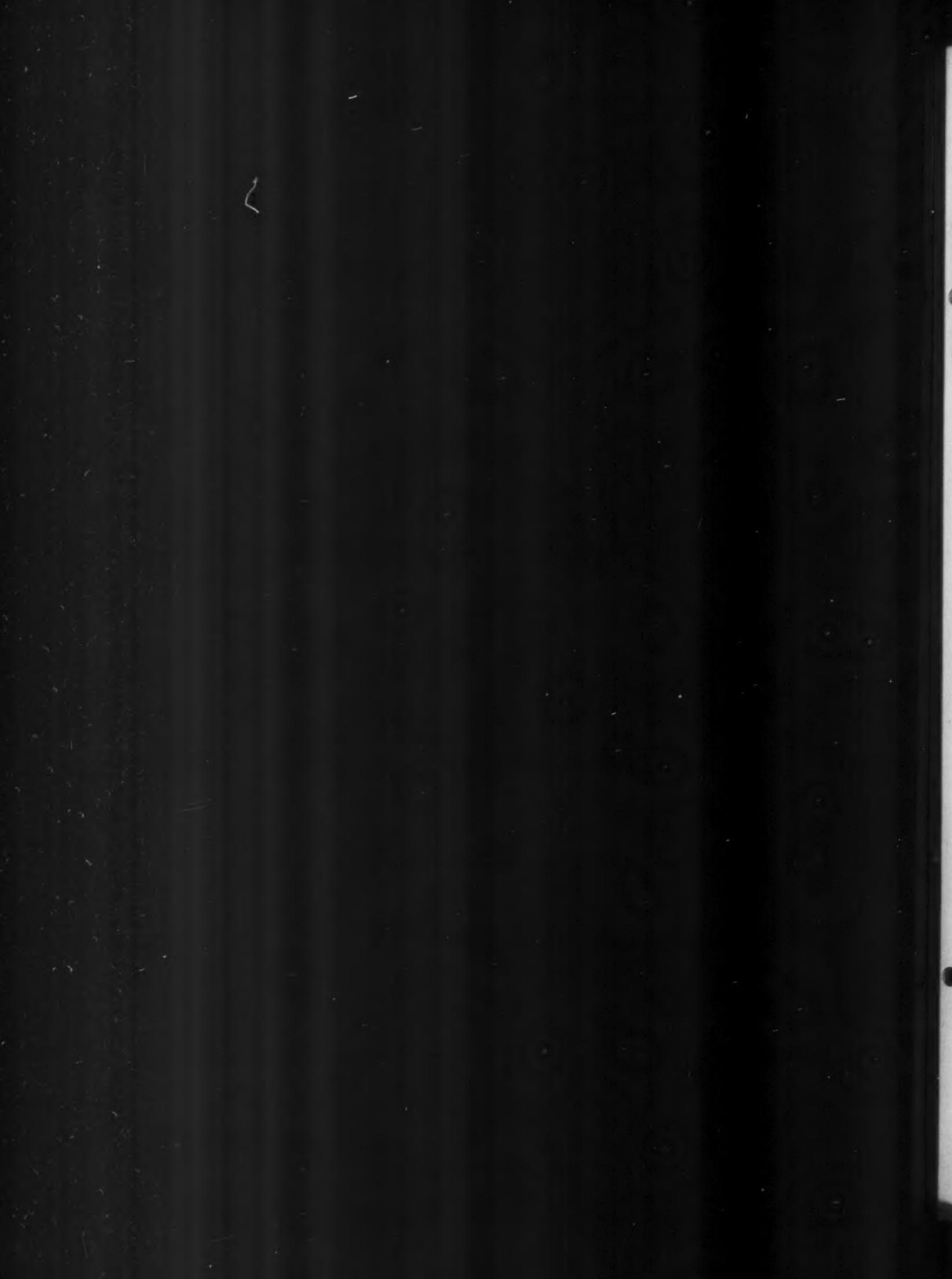
Manufacturers of Refrigerating Machines and Plants of any desired capacity for the cooling of Packing Houses, Abattoirs, Cold Storage Warehouses, Breweries, Dairies, Confectioneries, etc.

Also for the MANUFACTURING of ARTIFICIAL ICE by the CAN SYSTEM and by their NEW IMPROVED DIRECT AMMONIA PLATE SYSTEM.

We Make a Specialty of COLD STORAGE AND REFRIGERATION
FOR BUTCHERS AND PACKERS.

DESCRIPTIVE CIRCULARS, REFERENCES, DETAILED ESTIMATES and INFORMATION FURNISHED ON APPLICATION.





SEE PAGE 7, INDEX TO ADVERTISEMENTS.

THE G. H. HAMMOND COMPANY,

HAMMOND, IND. AND SOUTH OMAHA, NEB.

SHIPPERS OF

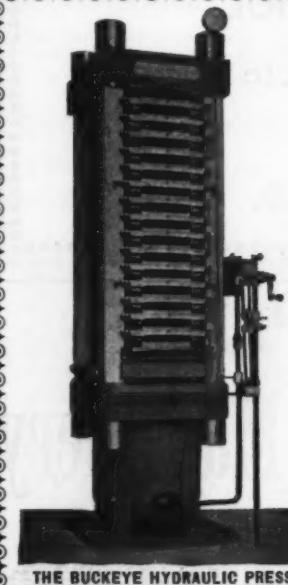
DRESSED BEEF, SHEEP AND HOGS

MAKERS OF "CALUMET" BUTTERINE ESPECIALLY ADAPTED FOR SUMMER USE.

COIN SPECIAL BRANDS OF
BEEF EXTRACT, CANNED MEATS,
HAMS AND BACON, LARD, Etc., Etc.
HAVE NEVER BEEN EXCELLED.

New York Branch, 309 Greenwich Street,
Boston Branch, 54 Chatham Street,
Chicago Branch, 244 Lake Street.

TRY OUR LARD SUBSTITUTE, "COOKENE."



THE BUCKEYE HYDRAULIC PRESS.

The Buckeye Iron AND Brass Works

DAYTON, OHIO.

MANUFACTURERS OF

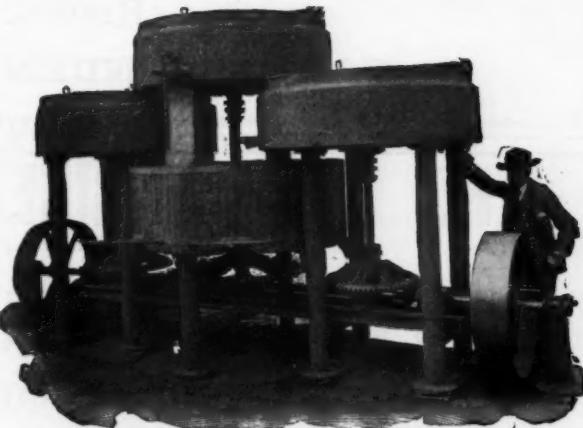
Cottonseed Oil Mill
AND Linseed Oil Mill

MACHINERY
OF ALL KINDS.

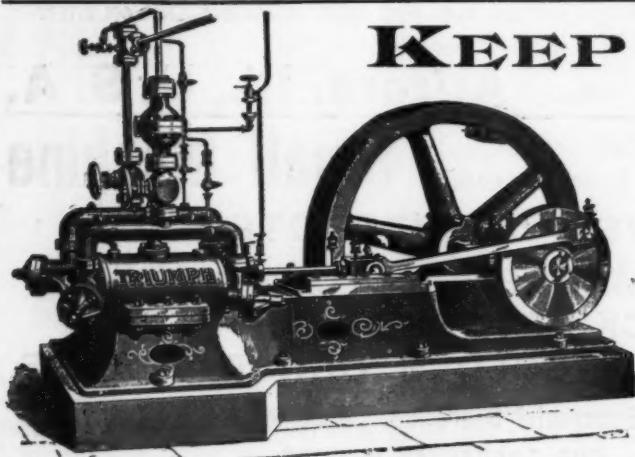
Rolls, Pumps, Molds,

*The Most Perfect System
of Pressure Application.*

*The Very Latest Improvements
and the Very Best.*



SET OF 60-TON COOKERS FOR COTTONSEED OIL MILLS.



KEEP COOL!

The Triumph Ice Machine Co.

MANUFACTURERS OF

**REFRIGERATING
AND ICE MACHINERY**

WE KNOW HOW

*Estimates for Complete Plants
furnished on application.*

WRITE FOR CATALOGUE "A."

Office and Works,

610-616 Baymiller Street,
859-869 Hathaway Street,

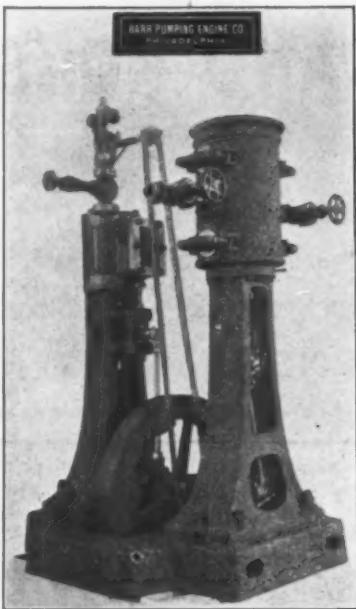
CINCINNATI, OHIO.

Index to Advertisements can be found on Page 7.

Barr Pumping Engine Co.,

PHILADELPHIA.

MANUFACTURERS OF . . .



Ice and Refrigerating
High Grade Pumping

MACHINERY

FOR EVERY CLASS OF
SERVICE.

Contracts made for Complete
Plants with Guaranteed
Results.

CORRESPONDENCE SOLICITED.

RELIANCE ENGINEERING COMPANY.

Manufacturers of

Hercules ^{AND} Reliance Refrigerating Machinery

FOR PACKING HOUSES, MEAT MARKETS, PROVISION STORES, Etc., Etc.

MACHINES OF ANY DESIRED CAPACITY
FROM 1 TON TO 500 TONS.

Prices Quoted on Application.

MANUFACTURERS OF HIGH GRADE AMMONIA FITTINGS, BENT PIPE, COILS. CORRESPONDENCE SOLICITED.

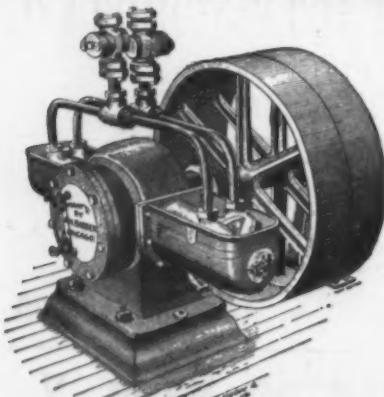
SOUTH EASTERN
AGENCY.

THOS. C. BASSHOR & CO.

28 Light Street. Baltimore, Md.

OFFICE AND WORKS,

Aurora, Ill., U. S. A.



The Best
AND Cheapest **Small Machine**
EVER CONSTRUCTED
FOR MEAT MARKETS,
PACKING HOUSES AND
COLD STORAGE PLANTS.

Over 250 in Successful Operation. Requires No Engineer.

OUR GUARANTEE IS GOOD.

A. H. BARBER & CO.

WHY NOT WRITE US?

229 South Water Street, Chicago, Ill.



FRICK COMPANY ENGINEERS.

ESTABLISHED 1853.
INCORPORATED 1865.

Capital, \$1,000,000.

S. B. RINEHART, President.
A. O. FRICK, Vice-President.
H. B. STRICKLER, Treasurer.
Ezra FRICK, Gen'l Man., & Sec.
THOMAS SHIPLEY, Manager Ice
& Refrigerating Machine Dept.

Manufacturers of the ECLIPSE ICE MAKING AND REFRIGERATING MACHINES. We build the largest and most successful Ice Making and Refrigerating Machinery made in this or any other country. Send for our list of References and New Ice Machine Circular for 1896, describing latest improvements and methods for Making Ice and Refrigerating. Also builders of First-class CORLISS STEAM ENGINES. Send for Corliss Engine Circular, 1896. Special High Speed (New Pattern) AUTOMATIC STEAM ENGINES. Send for High Speed Engine Circular, 1896.

Corliss Steam Engines. Ice Making Machinery.

High Speed Engines. Steam Boilers.

Frick Company, WAYNESBORO,
ENGINEERS. FRANKLIN COUNTY, PA.

REFERENCE LIST.

KANENBLEY BROS., Provisions, New York City, N. Y.
THE NEW YORK BISCUIT CO., Cracker Mfg., New York City, N. Y.
WALLACE & CO., Confectioners, New York, N. Y.
CENTRAL LARD CO., Lard Refiners, New York, N. Y.
BUSH BROS., Provisions, Jersey City, N. J.
JAMES McILHINNEY, Provisions, Jersey City, N. J.
D. FULLERTON & CO., Slaughterers, Paterson, N. J.
MONMOUTH ICE CO., Mfg. Ice, Seabright, N. J.
FIDELITY WAREHOUSE & COLD STORAGE CO., General Cold Storage, Trenton, N. J.
PETERSBURG CRYSTAL ICE CO., Mfg. Ice, Petersburg, Va.
WM. GRANT'S SONS, Provisions, Springfield, O.
ISAAC WHIFFEN'S SONS, Provisions, Utica, N. Y.
COOKE BROS., Oil Works, Elizabeth, N. J.
HOTEL MARGARET, Brooklyn, N. Y.

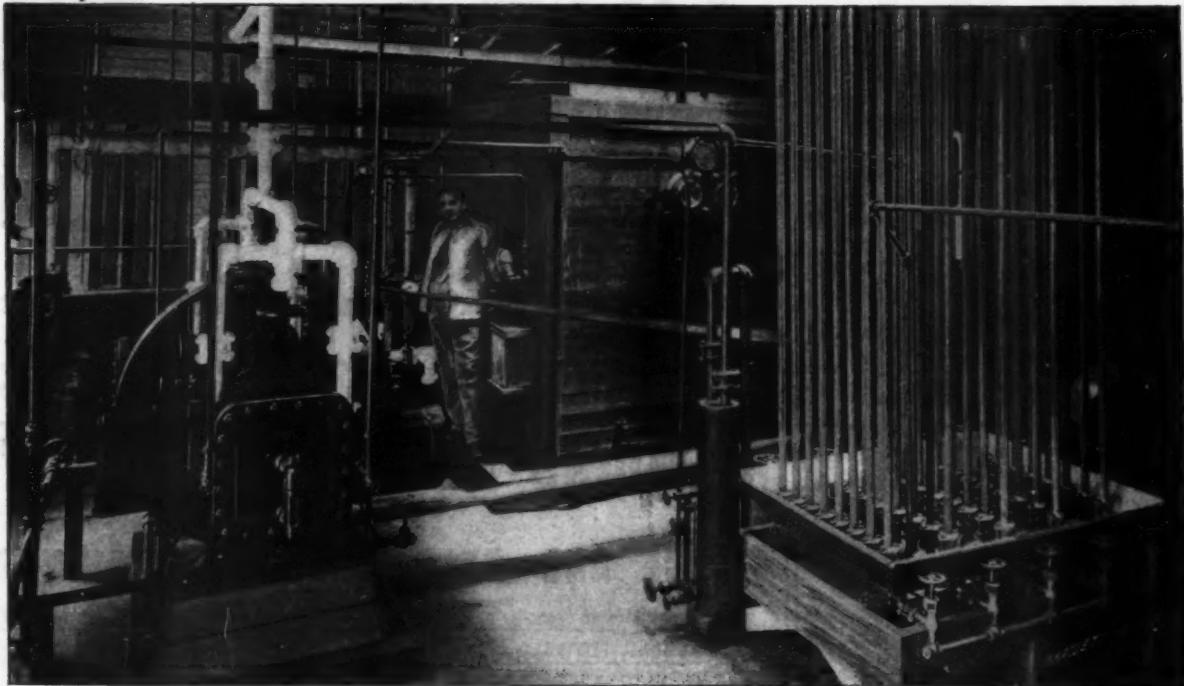
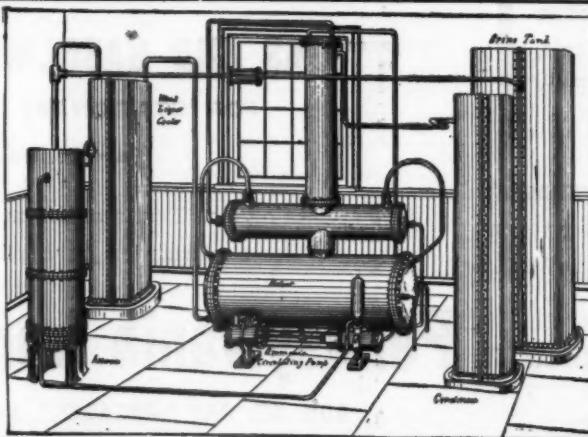
Simplest. Best. Lowest Price.

**CONDICT
ICE-MAKING
OR
REFRIGERATING
MACHINE.**

Uses Less Fuel, Than Any
Uses Less Water, Other System

BUILT BY
STEELE & CONDICT,
JERSEY CITY, N. J.

CORRESPONDENCE
SOLICITED.



Last week this space contained a cut of the meat room of the Cook County Hospital, Chicago, Ill., and referred to the new refrigerating plant which had been installed. The above shows it fully. The compressor is belted from the small engine in the back ground and hides the brine pump which is near the brine tank. The Condenser is of the vertical evaporative type, economical of water and easily handled. Such a plant is efficient, durable and convenient.

WESTINGHOUSE, CHURCH, KERR & COMPANY,

NEW YORK, 26 Cortlandt Street.
BOSTON, 53 State Street.

ENGINEERS.

PITTSBURG, Westinghouse Building.
CHICAGO, 171 La Salle Street.

PENNSYLVANIA IRON WORKS COMPANY

PHILADELPHIA.

BUILDERS OF THE

BOYLE

PLANS AND ESTIMATES
FURNISHED OF
REFRIGERATING PLANTS

For Breweries, Cold Storage
Warehouses, Markets, Hotels,
Packing Houses, Chemical Fac-
tories, etc.

ALSO, ICE MAKING PLANTS OF
ANY SIZE CAPACITY REQUIRED.

New York Office, 621 BROADWAY.
Southern Office, 44 BULL BLOCK, LOUISVILLE, KY.

Ice Making AND Refrigerating Machine

BUILDERS OF

GAS AND GASOLINE ENGINES

FOR STATIONARY AND MARINE SERVICE.

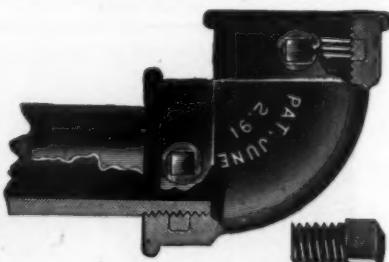
Catalogues, Testimonials and other information
furnished on application to

Pennsylvania Iron Works Co.

50th ST. AND LANCASTER AVE., PHILADELPHIA

TIGHT JOINT AMMONIA FITTINGS

MALLEABLE IRON

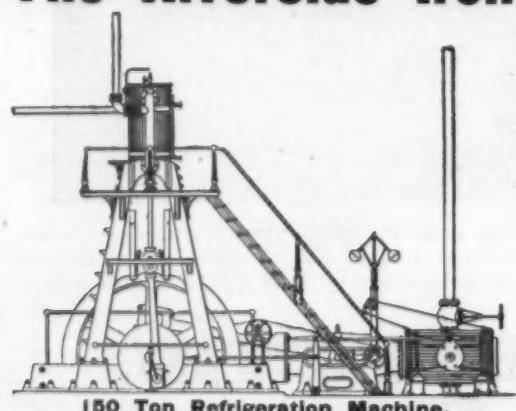


For ICE & REFRIGERATING MACHINES

NEVER LEAK.

TIGHT JOINT CO., 181-183 BANK ST., N. Y.

The Riverside Iron Works Co. KANSAS CITY. Kan.



MANUFACTURERS OF

ICE AND REFRIGERATING MACHINERY

of any Size or Capacity, on the Compression Principle, also Manufacturers of SPECIAL AMMONIA FITTINGS which are superior to anything now on the market. MANUFACTURERS OF PACKING HOUSE MACHINERY OF ALL KINDS. THE ROBERT'S HOG SCRAPER, LARD ROLLERS IN ONE PIECE.

...Partial List of Machines in Operation.

We contract for the EQUIP- MENT OF COMPLETE PLANTS, either for Ice Making, Cold Storage, Packing Houses or Brew- eries.	St. Louis Ice and Cold Storage Co., St. Louis, Mo.....	70-ton Ref.
Correspondence Sought.	Kansas City Ice and Cold Storage Co., Kansas City.....	70-ton "
	Reid Bros. Packing Co., Kansas City, Kan.....	70-ton "
	Omaha Brewing Association, Omaha, Nebraska.....	75-ton "
	Kansas City Ice and Cold Storage Co., Kansas City, Mo.....	100-ton "
	Kansas City Ice and Cold Storage Co., Kansas City, Mo.....	250-ton "
	Ryan & Richardson, Leavenworth, Kan.....	100-ton "
	Jacob Dold Packing Co., Buffalo, N. Y.....	50-ton "
	Jacob Dold Packing Co., Kansas City, Mo.....	70-ton "

ADVERTISING RATES.

THIS JOURNAL IS PUBLISHED
EVERY SATURDAY.

Regular rates are understood by the year—52 Insertions.
ONE YEAR, OR 52 WEEKLY INSERTIONS.

1 Inch x $\frac{3}{4}$ inches wide.....	\$50.00
2 Inches	75.00
3	100.00
4	125.00
5	175.00
8	225.00
11	300.00
16 $\frac{1}{2}$	450.00
22	575.00
24	625.00
32	850.00

Cover pages and preferred positions 25 per cent. extra.
Advertisements on reading pages double rates.

Reading Notices, 50c. per line.

Solid type ads on reading pages, 50c. per line.

For "Want" and "For Sale" advertisements see page 45.

SEMI-MONTHLY.—24 INSERTIONS.

(Full, half, third and quarter pages only.)	
1 Page (twice a month)	\$450.00
15	300.00
16	200.00
32	150.00

MONTHLY.—12 INSERTIONS.

(Full, half, third and quarter pages only.)	
1 Page (once a month)	\$300.00
15	150.00
16	100.00
32	90.00

SHORT TERMS.

2 Months.....	25% of annual rate.
6 Months.....	60% of annual rate.

Preferred positions will be sold by the year and for 52 insertions only.

Advertisements which are indexed under more than one classification will be charged for at the rate of ten cents per heading per insertion. A reasonable number of classifications in the index will be allowed, however, without extra charge, on large contracts.

INDEX TO ADVERTISEMENTS
AND BUYERS' GUIDE.

Ammonia.—National Ammonia Co.	8
Ammonia Fittings.—Reliance Engineering Co.	5
Tight Joint Co.	6
Architects.—Jackson Refrigerator Co.	18
J. T. Nicholson & Son.	48
Perrin, Wm. B. & Co.	48
J. G. Glover.	48
Asbestos Roofing.—H. W. Johns Mfg. Co.	11
Barrel Paint.—Whitelaw Bros.	27
Bismarck Brown.—Whitelaw Bros.	27
Stone Crusher.—The Foot Mfg. Co.	19
Blanchard Machine Co.	27
Stedman Foundry and Machine Works.	19
Holmes & Blanchard Co.	19
Books.—Span & Chamberlain.	25
Borneo.—The Pacific Borneo Co.	back cover
Whitelaw Bros.	27
Welch, Holme & Clark Co.	26
Paracetic Acid.—Whitelaw Bros.	27
Brooms 'n' Brushes.—Jos. Lay & Co.	41
Butchers' Supplies. (See Casings, also Machinery.)	
Butchers' Wholesale. (See also Pork and Beef Packers.)	
Armour & Co.	
Armour Packing Co.	
Drescher, First & Co.	
The Cudahy Packing Co.	
Eastmans Co.	
C. J. Gardner.	
Hammond Co., G. H.	
Kaufman & Strauss.	
Kings & Co., Ltd.	
Manhattan Beef Co.	
Ottmann, Wm. & Co.	
G. D. Isaacs.	
Sol. Sayles.	
Schwarzschild & Sulzberger Co.	
J. M. & P. Scanlan.	
Stern, Joseph & Son.	
Swift, G. F. & E. O.	
United Dressed Beef Co.	
Richard Webber.	
Butterine.—Capital City Dairy Co.	
Calf-Shine (Green).—Page, Carroll S.	front cover
The New York Butchers' Calfskin Association.	
Joe Haberman.	front cover
F. Donahoe & Son.	
Casings.—Boehm & Co.	
Becker, F. & Co.	
Illinois Casting Co.	
Eichelmacher & Bohmer.	
Levi Berth & Co.	
Nelson, Morris & Co.	
H. Oppenheimer & Co.	
Schneidberg, H.	
Swift and Company.	
Vornberger, Hirsh & Co.	
Wells Casing Co.	
Wolf, Sauer & Heller.	
Wolfskehl, Meyers & Co.	

Cash Registers.—The National Cash Register Co.	15
Egry Auto. Register Co.	27
Castile Soda.—Whitelaw Bros.	26
Welch, Holme & Clark Co.	15
Chemicals.—Graessell Chemical Co.	15
Chemists.—H. E. Sturcke & Co.	24
Chloride of Calcium.—Whitelaw Bros.	27
Commission Merchants, Bankers and Brokers.	
P. G. Gray.	43
Everingham, G. S. & Co.	43
Ellsworth, Henry & Co.	38
Fuerst Bros. & Co.	12
Wm. Hooton & Co.	43
Jamison, John.	43
Kelly, Rob't H. & Co.	43
David C. Link.	43
Jacob Lesser.	43
Walter Milson.	40
W. Thos. Nash.	22
Norton & Worthington.	43
Nute & Johnston.	43
Richard McCartney.	43
Shaw, Geo. A. & Co.	43
Sterling & Hunt.	43
Treadwell & Simpson.	40
B. C. Shepard.	43
Geo. M. Sterne.	43
Tickle, W. Wilson.	22
Webbe, Wm. E. & Co.	10
Wood, J. C. & Co.	43
Wayland, C. A. & Co.	43
H. C. Zauu.	43
Zimmer, Adam.	40
Cooperative.—Foster Debevoise.	48
Cotton Meal Importers.—Johan Koopmans.	27
Cotton Oil.—Kentucky Refining Co.	20
Globe Refining Co.	20
American Cotton Oil Co.	20
Cotton Oil Mill Machinery.—The Buckeye Iron and Brass Works.	3
Coupon Books.—Allison Coupon Co.	48
Forbes, J. P.	29
H. W. Taylor & Co.	40
Drapers.—(See also Fertilizer Machinery.)	13
Anderson, V. D. Co.	15
Smith, Theo. & Brother.	15
Bartlett, C. O. & Co.	15
Ord, C. E.	15
Engines.—Otto Gas Engine Works.	25
Evaporators.—Walburn-Swenson Co.	27
Fat Cutter.—John B. Adt.	40
Fat and Skin Dealer.—Brand, Herman.	43
Donahue, P. & Son.	43
Groll, Chas.	43
Haberman, Joseph.	43
Levy, Jacob.	43
Lederer Bros.	43
Fertilizer Machinery.—The V. D. Anderson Co.	13
Holmes & Blanchard.	6
Filler Presses.—D. R. Sperry & Co.	29
Stillwell-Bierce & Smith-Vaile Co.	23
Fuller's Earth.—T. F. Abbe.	12
Whitelaw Bros.	27
Glue.—Lister, Jos.	27
Heaters.—Stewart Heater Co.	25
Hotels.—Continental Hotel, Chicago.	29
Franklin House, Detroit.	41
Ice, Scott, R. & W.	48
Ice Boxes and Butchers' Fixtures.	29
Alford, E. V. & Co.	47
Angerer & Grunzner.	47
W. A. Banta.	47
Farrell, T.	47
Keystone Refrigerator Co.	47
Marscheldeier, E.	47
A. E. McAdam & Co.	47
Sieberg Refrigerator Works.	47
Wolf, Sauer and Heller.	17
Charles Miller.	47
Ice and Refrigerating Machines.—Armstrong-Duff Machine Co.	11
Buffalo Refrigerating Machine Co.	2
Barber, A. H. & Co.	4
Barr Pumping Engine Co.	31
Creamery Package Mfg. Co.	31
Da La Vergne Refrigerator Machine Co.	31
The Frick Co.	35
Hendrick Mfg. Co.	3
Jackson Refrigerator Co.	31
Pennsylvania Iron Works Co.	31
Remington Machine Co.	31
Reliance Engineering Co.	31
Riverside Iron Works.	31
Steele & Condit.	31
Stillwell-Bierce & Smith-Vaile Co.	31
Sulzer-Vogt Machine Co.	31
Triumph Ice Machine Co.	31
Vilter Manufacturing Co.	31
Voss Ice Machine Works.	31
Westinghouse, Church, Kerr & Co.	31
Wolf, Fred. W. Co.	31
Westerlin & Campbell.	11
Zero Refrigerating Machine Co.	11
Insectors and Weighers of Provisions.—Gould, Thos. & Co.	49
Insulating Materials.—Standard Paint Co. (Paper).	43
F. W. Bird & Son.	38
Bird Paper Mfg. Co.	39
Garrett, C. S. & Son.	38
Investments.—Mecham Investment Co.	43
Lard Choler, Mixer and Dryer.—Dopp, H. Wm.	43
Lard, Thos. & Co.	43
Lard Kettles (Stoneware).—Dopp, H. Wm., & Son.	29
Lard Pumps.—Boomer & Boscobel Press Co.	24
The Hydrant Press Mfg. Co.	24
Lard Refiners.—The W. J. Wilcox Lard and Refining Co.	13
Lard Rollers.—Riverside Iron Works.	6
Lard Tubs and Pails.—Acme Flex, Clasp Co.	49
Frank Diesel Can Co.	23
Record Man'g Co.	23
Liquid Paints.—H. W. Johns Mfg. Co.	11
Meat Choppers.—Enterprise Co.	19
Meat Cutters.—Billingham, P., & Co.	40
Duncan Mackenzie.	21
Packing House Machinery and Supplies.	
Davies Warehouse Co.	10
F. K. Higbie.	10
Kley Engineering Co.	27
Lav. Jon., & Co.	41
J. W. Moyer.	61
Wm. R. Perrin & Co.	15
Riverside Iron Works.	6
Welch, Holme & Clark Co.	26
Weiss & Craig.	21
Whitelaw Bros.	27
Paint.—Allen Anti-Rust Mfg. Co.	38
Otto Goetze.—Anti-Rust.	22
Standard Paint Co.	30
Parchment Paper.—Paterson Parchment Paper Co.	32
Pork and Beef Packers.	
Armour & Co.	
Armour Packing Co.	35
Anglo-American Provision Co.	37
Fred'k Bohnet.	33
The Cudahy Packing Co.	39
The Jacob Gold Pkg. Co.	37
Foster Debevoise.	48
C. J. Gardner.	35
Halstead & Co.	23
Hammond, G. H., Co.	3
C. Heidelberger's Sons.	21
Jersey City Packing Co.	33
Kings & Co.	33
A. L. Leutgard Sausage and Packing Co.	17
Morris, Nelson & Co.	front cover
North Packing and Provision Co.	35
Ottmann, Wm., & Co.	21
Rohs & Brother.	front cover
Squire, John P., & Co.	11
Squire, John P. & Co.	33
Swift and Company.	33
Tri-City Packing and Provision Co.	37
Pork and Beef Scrap.—E. Raub & Sons.	14
Packers, Directory and Handbook.	50
Potato Flour.—Whitelaw Bros.	24
Preservatives.—Preservaline Mfg. Co.	17
B. Heller & Co.	36
Calleryne Manufacturing Co.	51
Pressures.—The Boomer & Boscobel Co.	28
The Hydraulic Press Mfg. Co.	27
Pumps.—Barr Pumping Engine Co.	4
Taber Pump Co.	front cover
Provisions.—Foster Debevoise.	48
Barrels, Otto.	47
Edw. Heymans.	46
Robert H. Kelly & Co.	43
D. Oestjen.	47
Snyder, N. H.	31
Zimmerman, M.	48
Railroads.	
"Big Four Route" (C. O. C. & St. L. Ry.).	
Refrigerator Doors.—Stevenson Co., Ltd.	49
Hose and Twine.—Bentley & Gerwig.	37
D. P. Winne.	32
Rejected Meats.—J. D. W. Claassen.	43
Safe Deposit and Storage.—N. Y. Produce Exchange Safe Deposit Co.	43
Sal Soda.—Whitelaw Bros.	27
Welch, Holme & Clark Co.	26
Sal Ammonia.—Fuerst Bros.	26
Salters.—Knowles Bros.	39
Whitelaw Bros.	27
Battelle & Renwick.	37
Sausage Manufacturers.—Bacharach, Joseph.	39
A. L. Lustegard Sausage & Packing Co.	17
Goldman, G.	47
Geo. W. Price.	49
M. Zimmerman.	48
Sausage Makers' Supplies.—R. Heller & Co.	36
Sausage Stuffer.—Union Machine Works.	40
Scroles.—Chicago Scale Co.	49
James H. O'Brien.	47
Shaftings and Bearings.—P. H. Gill.	17
Silicates of Soda.—Whitelaw Bros.	27
Welch, Holme & Clark Co.	26
L. Kranzsch.	30
Soda Ash.—Whitelaw Bros.	27
Jos. Lister.	25
Spices.—Plant & Stretch.	39
D. P. Cruikshank.	31
Pischer Mills.	front cover
H. Oppenheimer & Co.	39
Wm. J. Stitt & Co.	37
Steamships.—Hamburg-American Line.	49
Thermometers.—A. Weiskopf.	—
Track Work.—Duncan, J., & Co.	49
Koblish, F. J.	49
J. W. Moyer.	51
New Jersey Foundry & Machine Co.	49
Valves.—Jenkin's Bros.	25
Wagons.—Koenig & Lubrs Co.	49
Watchmen's Time Detector.—Nanz & Co.	25
Weighing Machines.—Pratt & Whitney Co.	25
Want and For Sale Ads.	45

Want and For Sale Ads can be found on Page 45.

ARMOUR'S SOAP

ARMOUR'S WHITE, Absolutely pure, snow white Floating Soap, 10-oz. and 6-oz. cakes. Nothing finer made.

ARMOUR'S LAUNDRY, A guaranteed pure neutral Laundry Soap. 12-oz. oval cake, fits the hand.

ARMOUR'S FAMILY, Best Soap made for all Family purposes. 16-oz. solid cake of pure Soap.

ARMOUR'S COMFORT, 12-oz. square cake, pure Laundry Soap. There's comfort in its use.

ARMOUR'S WOODCHUCK, 10-oz. wrapped cake, Floating Laundry Soap. "It's a wonder and a winner."

ARMOUR'S KITCHEN BROWN, A pound bar of good Scouring Soap.

ARMOUR'S MOTTLED GERMAN, A Soap of wonderful cleansing and lasting properties. Cut in pound bars.

ARMOUR'S WASHING POWDER, Superior to all washing compounds, elixirs, etc. It is the Perfection of quick acting, labor saving "cleansers."

THE ARMOUR SOAP WORKS, CHICAGO. **ARMOUR & CO., PROPRIETORS.**

THE FRED. W. WOLF CO.

Eastern Offices:
Bourse Building,
PHILADELPHIA, PA.
18 Broadway, NEW YORK.

Offices: 139 to 143 Rees Street,
Factory: { 302 to 330 Hawthorne Avenue,
{ 139 to 171 Rees Street, } CHICAGO.

SOLE MANUFACTURERS FOR THE U. S. OF THE CELEBRATED

LINDE REFRIGERATING & ICE MAKING MACHINE

Over 2,200 Machines now in actual operation, of which 319 are in Packing Houses. Send for Catalogue and complete list of users.

SWIFT & Co.....	Chicago.....	20—80 .. 1000	S. SAN FRANCISCO PACKING CO.....	Baden, Cal.....	2—60 .. 100
G. H. HAMMOND CO.....	So. Omaha, Neb.....	4—75 .. 300	LOUISVILLE PACKING CO.....	Louisville, Ky.....	1—100 .. 100
G. H. HAMMOND CO.....	Hammond, Ind.....	2—100 .. 200	FORT MADISON PACKING CO.....	Fort Madison, Ia.....	2—50 .. 100
SWIFT & Co.....	So. Omaha, Neb.....	{ 4—80 .. 200	UNDERWOOD & CO.....	Chicago.....	2—40 .. 80
SWIFT & Co.....	Kansas City, Mo.....	{ 1—100 .. 1 0	IOWA PACKING CO.....	Clinton, Ia.....	1—75 .. 75
CUDAHY PACKING CO.....	Nashville, Tenn.....	2—75 .. 150	CINCINNATI ABATTOIR CO.....	Cincinnati, Ohio.....	1—75 .. 75
CUDAHY PACKING CO.....	Sioux City, Ia.....	2—75 .. 150	HAMMOND STANDISH CO.....	Detroit, Mich.....	1—75 .. 75
UNDERWOOD & CO.....	Chicago.....	2—75 .. 150	ALTON PACKING AND REFRIG. CO.....	Alton, Ill.....	1—50 .. 50
ST. JOSEPH PACKING & TRANS. CO.....	St. Joseph, Mo.....	1—100 .. 100	J. & F. SCHROTH PACKING CO.....	Cincinnati, Ohio.....	1—50 .. 50
ARMOUR PACKING CO.....	Kansas City, Mo.....	1—100 .. 100	M. LAING & CO.....	Montreal, Canada.....	1—25 .. 25
			MICHIGAN BEEF AND PROV. CO.....	Detroit, Mich.....	1—25 .. 25



The National Ammonia Company, ST. LOUIS, MO.

THE RECOGNIZED
STANDARD OF QUALITY
THROUGHOUT THE
WORLD.

LIQUID ANHYDROUS AMMONIA

ABSOLUTELY DRY AND PURE.

OUR GOODS CAN BE HAD OF THE FOLLOWING:

NEW YORK.—The De La Vergne Refrigerating Machine Co.—W. M. Schwenker.—Mallinckrodt Chemical Works.
PHILADELPHIA.—Theo. J. Goldschmid.
BALTIMORE.—Wm. Mitchell.
WILMINGTON.—Delaware Chemical Co.
HOUSTON.—Joe. W. Davis Oil Co.
MILWAUKEE.—Chas. Baumback Co.

SAN FRANCISCO.—Pacific Ammonia & Chemical Co.—Geo. Herrmann.
KANSAS CITY.—Wm. H. Jennings.
ST. LOUIS.—Mallinckrodt Chemical Works.—Larkin & Scheffer.
CHICAGO.—A. Magnus' Sons.—Fuller & Fuller
BUFFALO.—Kast Copper & Sheet Iron Co.

CINCINNATI.—Herman Goepper & Co.
CLEVELAND.—Cleveland Commercial Co.
BOSTON.—Lyons & Alexander Co.
PITTSBURGH.—Union Storage Co.
NEW ORLEANS.—John Grote.
DETROIT.—Michigan Ammonia Works.
LIVERPOOL, ENGL.—Jas. Simpson & Co.
SYDNEY, AUSTRALIA.—F. W. & P. Hudson.

THE LEADING HOUSE.

H. WM. DOPP & SON,

MANUFACTURERS OF

SOAP MAKERS' and BUTCHERS' MACHINERY,

462 ELLICOTT STREET, BUFFALO, N. Y. U. S. A.

ONLY HIGH GRADE GOODS AND ABSOLUTELY THE BEST.

Seamless Steam Jacketed Cast-Iron Kettles, with and without Agitators,
Improved Lard Dryer, Mixer and Cooler,
Steam Jacketed Vacuum Pans, etc. Full Line of Soap Makers' Machinery.

DESCRIPTIVE CIRCULAR AND CATALOGUE ON APPLICATION.



STEAM JACKETED KETTLE.

THE NATIONAL PROVISIONER

THE ORGAN OF THE PROVISION AND MEAT INDUSTRIES OF THE UNITED STATES.

PUBLISHED WEEKLY.

ROBERT GANZ.

DR. J. H. BENNER.

THE NATIONAL PROVISIONER PUBLISHING CO.

ROBERT GANZ & CO. PROPRIETORS.

NEW YORK CITY: 284 & 286 Pearl Street.

CHICAGO: Room II, Rialto Bldg.,

135-137 Van Buren Street.

PHILADELPHIA: 3 South Front Street.

BOSTON: 45 North Market Street.

CINCINNATI: 28 West Second Street.

LONDON, ENGL., 29 Farringdon Road, E. C.,

Also 47 to 53 John Street, Smithfield.

ST. LOUIS, 221 No. Second Street.

KANSAS CITY.

CABLE ADDRESS, "SAMPAN, NEW YORK."

SUBSCRIPTIONS.

Per Annum, invariably in advance, in the United States and Canada, - - - \$4.00
Foreign Countries, except Canada (£1) - 5.00

NEW YORK AND CHICAGO.

Vol. XVI. Saturday, March 27, 1897. No. 13.
COPYRIGHTED, 1897.

52 PAGES.

THANKS!

Mr. Robert Ganz, the founder, and for many years managing editor of "The National Provisioner," is on his way to Europe. Before his departure he has received so many tokens of esteem and friendship and good feeling that he could not but accept them as a tribute to the valuable services which, through this paper, he has rendered to the best interests of the great trade represented by "The National Provisioner." What Mr. Ganz had neither time nor opportunity to do personally "The National Provisioner" does for him, to express our sincere thanks to all who, by their sympathy and co-operation, secured the success of our editor's journey.

In our issue of March 13, in announcing Mr. Ganz's expedition to Europe, we ventured to hope to merit a continuance of the confidence which "The National Provisioner" enjoyed from the Department of Agriculture. We are very much gratified to state that the change of the Administration has brought about no change in the friendly relations between the executive powers of the nation and the leading organ of the trade. Secretary Wilson most willingly added his full endorsement of Mr. Ganz's journey and its purposes to the introductions of the old Administration, and officially expressed his confident opinion that this latest undertaking of "The National Provisioner" will "doubtless insure to the benefit of all engaged in the traffic in these products (live animals, meat and other animal products and machinery for the assistance of those engaged in this traffic), both in the United States and in European countries." Thanks for such good opinion. It is most encouraging for the endeavor to deserve it.

THE CONSUMPTION OF MUTTON.

One of the peculiar anomalies in food consumption in the United States is the small proportion of mutton, which finds its way to the table of the average householder. Of course, there are explanations to be made for such a state of affairs, but the fact remains

nevertheless that mutton is an unknown quantity with fully one-half of the inhabitants of this country. We believe that the prejudice existing against this excellent, palatable and nourishing kind of meat is not nearly as extensive now as it has been in years past, and simply for the reason that in late years, by virtue of certain changes in the tariff laws relating to wool imports, the quality of American mutton has very materially improved, and now commends itself to the most fastidious palate. This is about as it ought to be. America is by far a greater beef-eating country than any other that we know. We are even ahead of John Bull in this respect, and everybody knows that "the roast beef of Old England" is not the least respected institution in that country. In England, however, the consumption of mutton is enormous, and imports from the Colonies to the London market are so extensive that it seems to us our friends on this side should make the great effort to place and popularize American mutton in the markets of Europe that was made and maintained in the case of our beef. When beef was first exported from America to Europe, it had all kinds of difficulties to contend with and prejudices to overcome. The quality, too, was decidedly inferior, and exporters and importers had to fight down the falsehoods promulgated by the land-owning and farming classes, who were quick to recognize that any extensive or appreciative growth of the meat importing business meant a relative lessening in the value of grazing property and in the business of stock raising—at one time an exceedingly profitable branch of English agriculture. Well, this is ancient history rather, but we want to point out that what has been possible in the introduction of American beef on the markets of Europe is likewise possible and worthy of trial in regard to American mutton. As we said before, our early exports of beef were nothing to boast of, as regards quality, but year by year, with the passing of the enormous ranch into moderately sized farms, the methods of feeding, housing, etc., have radically changed, until to-day the larger percentage of our cattle are domesticated instead of being wild. This, coupled with the efforts of exporters to seek for cattle peculiarly adapted to the English demand, has resulted in America's foothold for beef in that market to-day. American beef stands higher, or at all events, as high, in the estimate of John Bull, and he certainly is a good judge, as the home product.

We cite these facts to show the possibilities for American mutton. We think, however, that some attention should be paid to the widening of the domestic markets before foreign trade is sought for.

The conditions attending the growth of our beef and mutton industries are widely different. If circumstances generally, as well as in the matter of raising, had ever been such that the farmer found it more profitable to raise a bullock for the value of its hide totally, or almost so, regardless of its value for food, it is very likely that our beef would be no better now than it was twenty years ago, and would have no show at all on foreign markets. This has been the difficulty with our sheep. They have been raised for wool without consideration whatever for their virtue as food. The farmer has not been to blame for this. He did what paid him most, and simply figured that for wool his sheep were worth so much, and for mutton so much less. The placing of wool on the free list, however, has brought about a change in this, and it has led to a marked improvement in quality, as sheep raisers are now catering to the consumer. If these conditions continued it is possible to hope for a great future for domestic mutton, both at home and abroad. Apropos, we note that Professor Thomas

Shaw, of the State Experiment Farm of Minnesota, is urging upon the farmers of that State the importance of sheep raising, and in a recent call to discuss the question, had this to say:

The chief object of the meeting is to impress upon our farmers the advisability of giving attention to the feeding of sheep. To the westward on the ranges millions of sheep are being grown every year. They cross our State on the way to market. They are marketed in an unfattened condition, unless in so far as they are fed at stockyards and by the farmers of other States. Farmers in Iowa, Wisconsin and other States fatten them in large numbers. They do so because they find it profitable. In our State but little is done in this line, notwithstanding our nearness to the source of supplies, and the abundance and suitability of the foods that we grow. The business should prove profitable. It has been found so at the University State Farm, where experiments have been conducted during the past winter to test the question, and it is a business that should continue through long years in the future. It would furnish a means of consuming our cheap foods; it would make large quantities of excellent fertilizer for our lands; and it is not attended with much risk. Why then should our State not reap the benefits that will accrue?

These lines have the proper ring about them, and should receive the fullest consideration.

MEAT INSPECTION IN MINNESOTA.

Minnesota has for some time been wrestling with the question of meat inspection, and went so far at one time as to talk of shutting out the products of other States. This was, of course, intended as a blow for Chicago, Omaha and Kansas City houses which have branches in Minnesota and bring on their meats in refrigerator cars. The purpose of the bill introduced in the State Legislature dealing with the question was really to give a boom in the manner mentioned to home slaughtering and packing house operations. This idea was obviously unconstitutional and against the spirit of the interstate law. The measure was, therefore, modified, and may now become a law.

The representatives of the large Western packers who have been in Minnesota watching this matter in the interest of their respective houses, are reported as being satisfied over the result. As the bill now stands, about the only material point in it is the creation of a chief inspectorship, to be appointed by the Governor, who shall be a veterinary surgeon, and who shall get \$1,500 per annum.

It also fixes the fees for inspecting at the time of slaughter: Cattle, 8 cents per head; sheep, 1 cent; swine, 1 cent per head; for inspection of slaughtered cattle, 15 cents per carcass or any part thereof; slaughtered sheep, 10 cents; hogs, 10 cents.

Microscopic inspection is to be permitted, in the discretion of the inspector-in-chief. Inspectors are forbidden to have any connection with any stockyards or packing company. A penalty is provided of \$100 fine for the sale of fresh meat, if not legally inspected, but no penalty is provided for the sale of diseased meat which may have been inspected, except that the inspector who shall wrongfully attach any license tag to meat not fresh shall be fined, instead of the owner or seller of the diseased meat.

The measure now reads like a good one, and if carried out to the letter should be a great help to the slaughtering and packing industries in Minnesota. The attempt to build a Chinese wall around the State and shut out the products of other States was conceived in foolishness and should never have had serious consideration.

The Dingley bill proposes to once more place a duty on tallow. We do not recall that any very strong protest was made when this item was placed on the free list on the passage of the Wilson bill. The change, however, affected our markets very materially, and brought prices down to a lower figure than was ever quoted before. Then for a long time, instead of continuing as heavy exporters, we became importers, and Australian product found its way here. There was even talk of bringing tallow from China. Of late these conditions have again changed, and American tallow is being exported, but not by any means so extensively as when there was a duty. Soapmakers have doubtless benefited by tallow being on the free list, but it so reduced the markets for fats that it has hardly paid to handle them. We are hardly in a position to say at this writing just how the trade generally will be affected by making tallow again dutiable.

PROVISIONS AND LARD. WEEKLY REVIEW.

AN IRREGULAR, ACTIVE MARKET

has been the leading feature of the week, with raiding and covering by the shorts and selling by longs the cause of both the irregularity and activity, though there were better buyers both for short and long account than sellers on the weak spots. There has been increased activity, also, owing to the growing division of packers and speculators as to the merits of the situation and the future hog supply. Hitherto the packers have generally, in fact, almost without an exception, been on the bear side since this season began, but now the majority seem to have changed to the long side, or at least to have been buying and getting off the short side, while those still remaining on that side have fought the advance, and were enabled successfully to raid the market early in the week, owing to the disposition of longs to take their profits on the late advance, including some of the bull packers, namely, Armour and Swift, who were reported to be free sellers of ribs at the close of last week, while the Continental and International Packing Companies, as well as commission houses, were free buyers. On Monday the Anglo Company were free buyers of ribs and pork. Armour bought ribs and the Continental Company bought pork, while Cudahy's brokers were reported to be raiding the market on all the weak spots and buying on the breaks. Hence the increased activity was due to trading by packers more than to outsiders, though not wholly to the former, as there has been a widening market and increased speculation for the bull account, as it is now generally admitted that the losses of hogs by cholera last fall were much larger than believed by the trade at the time, and much nearer the estimates indicated by the Iowa State report early in the season. This latter is now confirmed by Iowa packers, who wrote during the week that there were no old hogs coming forward, they either having come in or died of cholera, while the new ones coming forward are light in weight, as well as less in numbers, than usual at this

season. This, no doubt, is the condition in other States, as well as in Iowa, as light receipts and decreasing weights have been universal, and both are still falling off. Yet, in spite of this continued falling off in receipts of hogs, compared with a year ago, and last month (estimates having run daily over the receipts), the visible supply of lard, especially, has been sufficient to keep that product from advancing as rapidly as pork and ribs, while some old longs took advantage of the strength in the latter to sell out the former early in the week. This selling was credited to Kent and his followers, who dropped a pretty large line on Monday and some more on Tuesday, while others sold on stop loss orders. It was this that enabled Cudahy to break the market; but before the close on Tuesday the loss had been nearly or all recovered, and in the case of pork and lard, $2\frac{1}{2}$ c. more, though ribs were $2\frac{1}{2}$ @ 5 c. off for the day. This rally was helped somewhat by that in wheat, as the decline early in the week was, by the break in that staple, causing realization by the longs in both. Of course, the bad condition of roads West, owing to floods, has helped reduce the receipts of hogs, but it has also prevented shipments of products from the packing points and caused dullness in cash demand. This is especially true of the South and Southwest, from which a good part of interior trade has come. It is estimated that stocks of lard on the first of the month will show a small increase at Chicago, but this is due rather to the fact that far Western packers have been shipping their lard to Chicago, rather than to increased packing at that point. But stocks of pork and ribs are not expected, it is claimed, to vary materially from last month. Export demand for bellies at the seaboard was much larger a week ago than reported, as sales were not given out until shippers had secured the bulk of stocks in the New York market, of which they took between 400 and 500 boxes last week, mostly for Northern Europe, in place of dry cured bacon at the West, which was relatively 1c. a lb higher than pickled bellies in New York; hence their purchases in the latter market, though at the close of the week bellies had advanced to within $\frac{1}{2}$ @ $\frac{1}{4}$ c. parity with dry salted bacon West. The English markets also took some, and, together with the Continent, cleaned up nearly all the 12-lb and clear bellies in New York, on account of which prices have been held higher since. Outside of this exporters have been quiet, having taken little lard, either refined or raw, for Europe, though

South America and the West Indies have been good buyers of refined. Otherwise cash trade has been light, as Eastern buyers of meats are still running on deliveries of old purchases made in the West, being unable to buy more, except at an advance, which was asked by the Western packers in view of the increased cost of hogs, while they are holding confidently for higher prices, on the now admitted light supply of mature hogs in the country and reduced estimates of the number of young hogs raised last year. Stocks in Europe, however, are still ample, though they are expected to show more reduction this month than hitherto, as native supplies are now pretty generally out of the way, and consumption will be thrown more generally upon American products than for the last four months. Yet the other side seems in no haste to buy, apparently taking less stock in our advance even than has been accorded it here. There is nothing further new in the situation of hog products, for spot or future delivery, though the bullish sentiments seems to be gaining ground, and there is more appearance of speculative interest on the part of packers in Chicago, with the belief in some quarters that there is a big short interest on the part of a few of them, and a large long interest on the part of others, and that manipulation will soon be seen in these markets with a lively fight between these rival interests, led by Cudahy on the bear and Armour on the bull side. The action of the markets this week have given color to this belief, and some well-posted commission houses in Chicago predict lively times before long in these markets, especially for May delivery, in which there is believed to be the largest short interest, which is liable to be squeezed.

On Saturday receipts of hogs in Chicago were only 8,000, against 12,000 estimated, and 5@ 10 c. up generally in the West, while products were irregular, declining 10c. on pork, to recover 5c. of it for the day, closing 5c. off, while lard and ribs closed unchanged. Cash lard, New York, was held at 4.45c. nominal, city 4.20c. bid, 4.25c. asked; pork unchanged; hogs stronger. Included in the sale of about 500 boxes of city bellies, noted above, reported last Saturday, were 14 to 16 lb at 5c., and 12-lb at 5@ 5 c., boxed.

On Monday receipts of hogs in Chicago were 21,000, against 25,000 estimated, and 43,000 West, against 42,000 a year ago. Products broke on selling by longs and raiding by shorts $17\frac{1}{2}$ c. for pork, 15c. for ribs and 10c. for lard for the day, while hogs were unchanged, to 5c. up, and $\frac{1}{2}$ c. better in

ROBINSON CIPHER. Members Chicago Board of Trade.

J. C. WOOD & CO.,

Commission Merchants. Grain and Provisions.

Room 1, Rialto Building,

CHICAGO.

Grain and provisions bought and sold for cash or carried on margins. Packing house products bought and sold on commission.

CORRESPONDENCE SOLICITED.

**TREDWELL & SIMPSON,
.. PROVISIONS ..**

240 La Salle Street,

CHICAGO,

BROKERS

In everything in the line of

Packing House Products

Members Chicago Board of Trade.

CORRESPONDENCE INVITED.

Fred. K. Niglie,

General Packinghouse Supplies.

SUITE 514-516,

TELEPHONE, MAIN 4668. 36 LA SALLE ST., CHICAGO, ILL.

If you are interested in purchasing your supplies from headquarters at the right prices, don't forget to figure with me.

PACKERS' SUPPLIES

Established 1878.

THE DAVIES WAREHOUSE & SUPPLY CO., 189 La Salle St., CHICAGO.

OF ALL KINDS.

Bungs, Plugs, Vents, Saltpetre, Crude and Granulated, Imported English Salt, Coarse Burlap for Press Cloths, German Potato Flour, Lard Tubs—Ash, Soft Wood, Fancy or Plain, H. & G. Fullers' Earth, Lump or Powdered, Tub Fasteners, Wire or Tin, Tripe and Pigs' Feet Packages.



THE SCIENTIFIC BONE AND SKULL CRUSHER

WE MAKE THREE SIZES OF
CRUSHERS.

A FULL LINE OF
Crushers and Grinders
AND
Attrition Mills
FOR FERTILIZER AND
OTHER MATERIALS.
WRITE US.

A Very Strong and Powerful Machine.

Will crush all sizes and conditions of bones, including skulls, whether they are raw, dried or steamed, doing the work rapidly and well, from 3 to 5 tons per hour.

**The Largest Concerns in the country are
using our Crushers and Grinders.**

SEND FOR TESTIMONIAL LETTERS,
CATALOGUES, PRICES, ETC.

**THE FOOS MFG. CO.,
SPRINGFIELD, OHIO.**

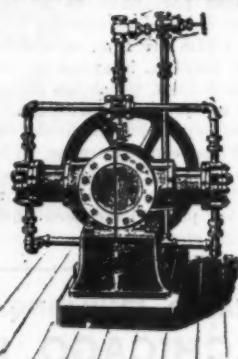
Established 1842.

**JOHN P. SQUIRE & CO.'S
PURE KETTLE-RENDERED LEAF LARD**

21, 23, 25
Faneuil Hall Market, **BOSTON, MASS.** 39 and 40
North Market Street.

WESTERLIN & CAMPBELL,

SMALL REFRIGERATING MACHINES
A SPECIALTY



For COLD STORAGE, CREAMERIES,
MEAT MARKETS, Etc.

Consulting Engineers and Contractors

FOR ICE MAKING AND REFRIGERATING
MACHINERY.
26 West Lake Street, CHICAGO, ILL.

Anhydrous Ammonia and Ammonia Fittings.

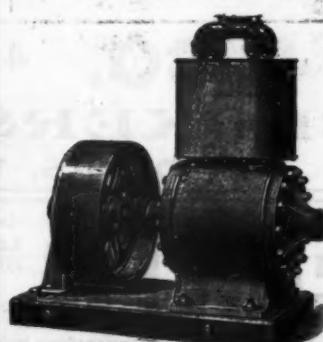
SPECIFICATIONS AND ESTIMATES
PROMPTLY FURNISHED.

**H.W. JOHNS' ASBESTOS
LIQUID PAINTS**

THE STANDARD PAINT FOR STRUCTURAL PURPOSES.
Pamphlet, "Suggestions for Exterior Decoration," Sample Card and Descriptive Price List free by mail.
Asbestos Roofing, Building Paint, Steam Painting, Boiler Coverings, Fire-Proof Paints, Etc.
Asbestos Non-Conducting and Electrical Insulating Materials.

H. W. JOHNS MANUFACTURING CO.,
87 Malden Lane, New York.

CHICAGO: 240 & 242 Randolph St. PHILADELPHIA: 176 & 172 North 4th St. BOSTON: 77 & 79 Pearl St.



**ARMSTRONG'S
LITTLE GOLDEN GATE
ICE MAKING AND REFRIGERATING
MACHINES**

FOR
PACKING HOUSES, MARKETS, HOTELS,
CREAMERIES, CLUB HOUSES, BREW-
RIES, STEAMSHIPS, ETC.

ARMSTRONG-DUFF MACHINE CO.,

439 N. Broad St., Philadelphia, Pa.

New York. Spot lard was offered at 4.40c., New York, in tierces, and at 4.17 $\frac{1}{2}$ c. in tanks, while city was bid 4.15c. and 4.20c. asked, with small sales at the latter figure early. Refined for the Continent was easier at 4.75c., South America steady at 4.05c. and Brazil at 6.15c. in kegs. Meats were held higher and checked business in New York, though little more was doing in the West for the Eastern markets, one car 16-lb hams, spot, 8 $\frac{1}{2}$ c., Chicago; two cars skinned hams, May and June, and two cars California ditto, July and August, private terms, in Chicago, with five cars of green hams at 7 $\frac{1}{2}$ @7 $\frac{1}{2}$ c. for 16, 8 $\frac{1}{2}$ c. for 14, and 7 $\frac{1}{2}$ c. for 12, to come to New York.

On Tuesday pork broke 15c. more in Chicago, but recovered it, and closed 2 $\frac{1}{2}$ c. higher for the day; lard broke 7 $\frac{1}{2}$ c. and recovered 10c.; ribs broke 5c. and closed at the bottom on active trading all around. Receipts of hogs were only 11,000, however, at Chicago, against 18,000 estimated, and 44,000 West, against 48,000 a year ago. Yet with these light receipts the hog market was manipulated down 5c., except at Kansas City, where the biggest receipts were reported, 12,000, and prices 5c. up; 250 tcs. of Western lard were sold in New York, in tanks, on the basis of 4.37 $\frac{1}{2}$ c.; two tanks early at 4.12 $\frac{1}{2}$ c., and three later at 4.17 $\frac{1}{2}$ c., closing at the latter price, with city bid 4.15c., 4.20c. asked. There was a better business also in neutral lard, 250 tcs. of Eastern ditto selling at 5 $\frac{1}{2}$ c., New York, export, and 75 tcs. of very choice ditto at the same price, though under the market; 2,000 pieces 12-lb city pickled hams, 9c.; 10,000 lb 14-lb ribbed bellies, 5 $\frac{1}{2}$ c., loose.

On Wednesday receipts of hogs were 19,000 in Chicago, against 20,000 estimated, and 55,000 West, against 67,000 last year, with a firm market. Pork opened 5c. off, lost 5c. more on the same influences as noted Monday and Tuesday, but recovered 15c., to close finally 2 $\frac{1}{2}$ c. up for the day, after an active trading; lard opened 2 $\frac{1}{2}$ c. off, but recovered 5c., closing 2 $\frac{1}{2}$ c. up for the day, and at the top, while ribs opened unchanged, lost 5c. and recovered 7 $\frac{1}{2}$ c. Spot markets in New York were strong but quiet, Western lard 4.45c., city 4.20c., with small sales of meats and pork at former quotations.

Beef products have been quiet and steady at old prices, with a fair export trade in canned goods. Mr. Bailey, the manager of the Jersey City Packing Co., returned during the week from a two months' trip in Europe, and reports trade in beef on the other side rather slow, without very much prospect of improvement. Sales of the week in New York were 300 tcs. and 500 bbls. at the range for extra India mess and packet and family. Hams still firm at \$18 West and \$19 New York, cost and freight.

(For Later Report see Page 40.)

LIVERPOOL QUOTATIONS.

Liverpool, March 26—4:15 P. M.—Bacon steady; demand poor; Cumberland cut, 28 to 30 lb, 20s.; short rib, 20 to 24 lb, 28s. 6d.; long clear, light, 35 to 38 lb, 27s. 6d.; long clear, heavy, 40 to 45 lb, 27s.; short clear backs, light, 18 lb, 26s. 6d.; short clear middles, heavy, 45 to 50 lb, 25s. 6d.; clear bellies, 14 to 16 lb, 25s. 6d. Shoulders—Square, 12 to 18 lb, 24s. Hams—Short cut, 14 to 16 lb, 43s. Tallow—Fine North American, 18s. Gd. Beef—Extra India mess, 56s. 3d.; prime mess, 47s. 6d. Pork—Prime mess fine Western, 50s.; medium Western, 45s. Lard quiet; prime Western, 22s.; refined in pails, 24s. Cheese firm; demand moderate; finest American white and colored, 57s. 6d. Butter—Finest United States, 90s.; good, 55s. Cottonseed Oil—Liverpool refined, 15s. 3d. Linseed Oil, 15s. Refrigerator Beef—Forequarter, 41/2d.; hindquarter, 6d.

PROPOSALS.

OFFICE OF LIGHT-HOUSE INSPECTOR, or, Third District, at Tompkinsville, N. Y., March 13, 1897.—Proposals will be received at this office until 12 o'clock M. on Tuesday, the 13th day of April, 1897, for furnishing and delivering provisions for vessels and light stations in this district. Forms of proposals and printed instructions giving full particulars as to the articles required and to the terms of delivery and payment can be obtained at this office. The bidder in every case must furnish, with his bid, a certified check in a sum equal to 3 per cent. of the amount of the bid. The check is to be drawn to the order of the Secretary of the Treasury, and in the case of an unsuccessful bidder, it will be returned to him after the award is made. It will be returned to the successful bidder when his contract is signed and approved by the Department. If he should fail to make the contract, the certified check deposited by him shall become the property of the United States. The right is reserved to reject the whole or part of any or all bids, and to waive any defects, and to increase or diminish during the fiscal year ending June 30, 1898, the quantities of any item or article named in the specifications. A clause to this effect will be inserted in the contract. A. S. SNOW, Comdr. U. S. N. Light-House Inspector.

TALLOW AND STEARINE.

WEEKLY REVIEW.

TALLOW.—A dull, firm market has been the only feature at New York so far this week, but there was a higher market at Chicago at the close of last week, packers having held choice No. 1 at 4c. until they forced some of the soap men to pay that price for fair amounts, it was said, although only 500 tcs. were reported up to the close of last Saturday. Yet early this week advices from Chicago said liberal sales had been made at that figure, and moderate ones of No. 2 packers' somewhere between 2 $\frac{1}{2}$ @3c., both prices being named in letters from there, though 2 $\frac{1}{2}$ @27c. were the more generally credited figures, as the demand from soap makers has been more for choice tallow than for this grade, and hence the advance greater on the former. Yet no figures have been given as to the aggregate sales at 4c., and the failure of Eastern markets to sympathize, and lack of further purchases reported there, leaves some doubt as to any big business having been done there at 4c. It looks more like a held market than an active one, at that advance. Certainly there has been no improvement reported in the soap trade, and nothing in it to warrant higher prices for tallow, unless soap makers were out of stocks, which is not generally credited, in view of their big purchases late last fall and their dull trade since. The New York market, as stated, has utterly failed to respond to the strength West, either in country or city stock, as the soap makers have taken as little of the former as of late, not over 50,000 to 60,000 lb a day so far this week, at 3 $\frac{1}{2}$ c. for fair stock, and 3 $\frac{1}{2}$ c. for strictly prime, 3 $\frac{1}{2}$ c. for so-called edible, though for soap making purposes, while they have refused to bid over 3 $\frac{1}{2}$ c. for prime city, which has been offered, though held steadily

at 3 $\frac{1}{2}$ c., at which English shippers took 150 hds. midweek and the local trade 50 more. This was everything reported up to the close of Wednesday in city tallow since our last, while the aggregate sales of country for the four days have not been 200,000 lb, so far as reported. The English market, however, only takes special brands, while the French markets have not been heard from, and exporters say that they have even received no cables on tallow, those markets being utterly indifferent as to our markets, notwithstanding the reports of the prospect of an increased duty by France, in retaliation for the proposed increase in tariff in this country. This is all so far of interest or in the shape of business in this staple. Wednesday's sales in London were three-quarters of the offerings of 1,500 casks, and the price was 3d. higher, which is the only encouraging feature reported from the other side, except that Germany took late last week 100 tcs. of white mutton tallow at 3 15-16c.

STEARINES have been almost a blank since our last, both oleo and lard, East and West, the former having been offered at 4 $\frac{1}{2}$ c. in both markets, with only peddling lots sold at those prices in either, while stocks are accumulating slightly, though pressers are running near their minimum production, and are holding steadily in the belief that compound lard refiners will soon be in the market again. There has been nothing reported in Western lard stearine since the close of our last, when 250 tcs. were taken at 4.55c. Chicago, to come to New York, and the market there has not been below 4 $\frac{1}{2}$ c. since, and 4 $\frac{1}{2}$ c. New York, while city has been held at 5c. in tierces and 4 $\frac{1}{2}$ c. in hogsheads, with fair business reported, chiefly to local refiners, who have been doing a good business in pure lard to South America and the West Indies. Sales so far, however, have only been reported of a few 25,000-lb lots of oleo at 4 $\frac{1}{2}$ c., both New York and Chicago. Grease stearines have been firmly held at 4 $\frac{1}{2}$ c. for yellow and 4 $\frac{1}{2}$ c. for white, while it is understood that shippers would have paid 1/2c. less, but no business has been reported.

OLEO OILS have been almost nominal so far as reported, up to this writing, as stocks in Rotterdam have been very light and that market too bare to admit of any activity, while the arrivals have been small and taken up as soon as received. On Monday 100 of Harrison's was reported at 39 florins, with other brands ranging from 35 to 38 florins for small lots, at which range the market was quoted, until Wednesday, when sales of 37 florins, without particulars as to brand or amount, were received by cable.

ANIMAL OILS are firm, as noted in our last for lard, 40@42c., in sympathy with the market for lard itself, which has remained at or near the top prices of last week, with a fair home and export demand at the advance. Neatsfoot oil has been featureless, with a limited demand and supply, at old figures. There has been a little more inquiry from tanners for degras, but prices have been unchanged and the market steady.

WM. HOOTON & CO. 406 RIALTO BUILDING,
MEMBERS BROKERS, CHICAGO, ILL.
CHICAGO BOARD OF TRADE.
OFF LARD AND GREASE A SPECIALTY. LARD, OILS, TALLOW, GREASE, Etc.

FULLERS EARTH
THE BEST ON THE MARKET. [Correspondence Invited.]

As used by the leading Packers,
Lard Refiners, Soap and Cotton
Oil Manufacturers.

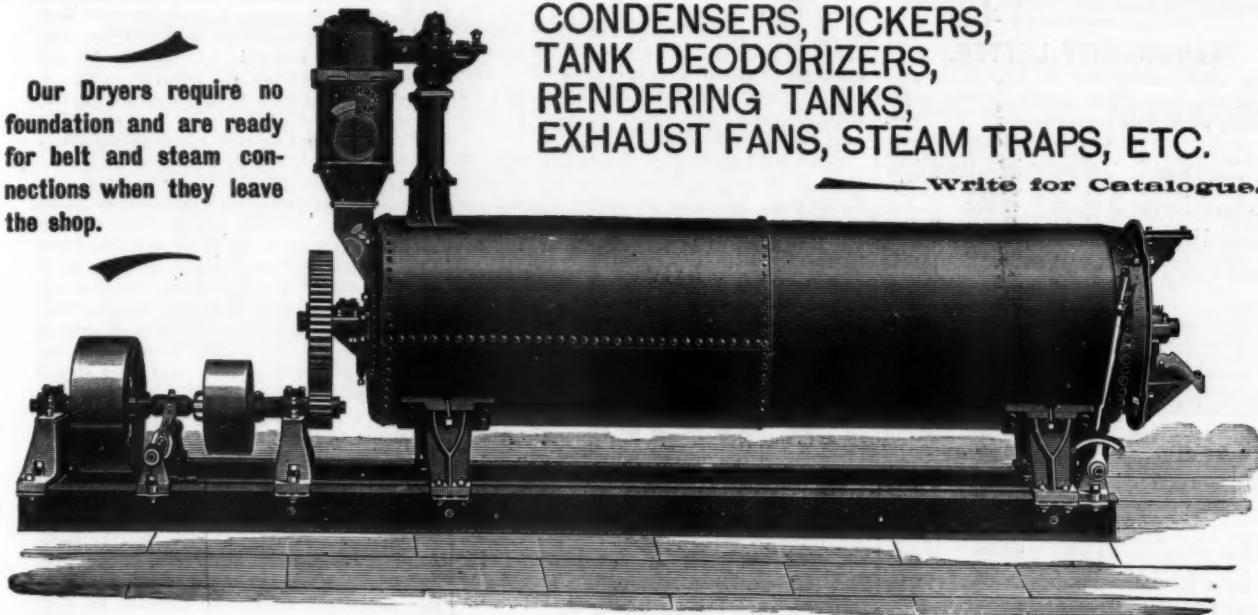
R. F. ABBÉ,
60 and 62 New St., New York.

**THE V. D. ANDERSON CO.,
CLEVELAND, OHIO,
MANUFACTURERS OF
ODORLESS FERTILIZER DRYERS,**

Our Dryers require no foundation and are ready for belt and steam connections when they leave the shop.

CONDENSERS, PICKERS,
TANK DEODORIZERS,
RENDERING TANKS,
EXHAUST FANS, STEAM TRAPS, ETC.

Write for Catalogue.

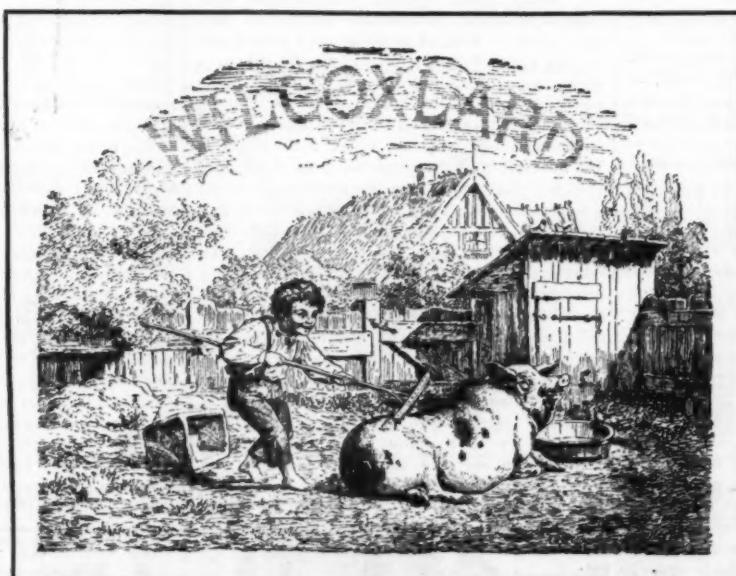


ANDERSON'S NO. 2 SINGLE CYLINDER DRYER.

**The W. J. Wilcox Lard and Refining Company
NEW YORK.**

Pure
Refined
Lard.

W. J. WILCOX & CO.



The
Globe
Brand.

Established 1862.

REFINERS FOR EXPORT ONLY.

GREASES have been reported quiet East both for export and local trade, and also at the West, though held rather firmer there on account of the advance in choice tallow, but the demand from the soap makers does not seem to be active for the low grades of stock, while exporters have confined their operations to filling small orders at the seaboard at barely steady prices.

(For Later Report see page 40.)

KANSAS CITY LETTER.

The stock records for the past week give cattle, hogs and sheep higher. The receipts for past week with comparisons:

	Cattle.	Hogs.	Sheep.
Kansas City	24,881	50,151	17,738
Cor. week 1896	23,967	47,346	24,969
Cor. week 1895	24,907	40,990	14,353
Cor. week 1894	27,271	47,372	11,195
Chicago	41,300	124,200	64,000
Omaha	11,800	25,300	16,500
St. Louis	9,100	34,500	9,700
Kansas City	24,900	50,200	17,700

	Cattle.	Hogs.	Sheep.
Total	87,100	224,100	107,900
Previous week	87,400	232,700	108,900
Cor. week 1896	100,000	257,700	96,100
Cor. week 1895	80,400	272,400	62,700
Cor. week 1894	98,800	256,500	77,800
Cor. week 1893	97,300	151,600	73,600

	Cattle.	Hogs.	Sheep.
Armour Pack. Co.	3,597	16,940	4,457
Swift & Co.	5,612	13,850	8,412
S. & S. Co.	4,280	2,278	1,558
J. Dold Pack. Co.	451	6,753	231
Fowler, Son & Co.	114	7,197	..

	Cattle.	Hogs.	Sheep.
Total	14,072	47,100	14,719
Previous week	11,037	48,383	13,934
Cor. week 1896	14,527	44,954	15,810
Cor. week 1895	13,843	35,584	7,550

Reports from the Northwestern ranges very conflicting as regards to losses. Some give a dreary tale of woe and decimation—and newspaper reports would make the losses of Pierre Wibaux, the cattle king of Montana and Dakota, as \$1,000,000—that last year he put 250,000 young Utah cattle on range, and now all are dead. But this lacks confirmation. When one gives the report of 75 per cent. of range cattle in the Dakotas dead, the balance of the world may take such reports with a very great big pinch of salt. Then come other reliable men who have been over other ranges in Dakota. One writes: "I have not seen over half a dozen dead cattle." Another: "Made a lengthy trip on the Little Missouri range, and did not see a dead critter on entire trip." In the meanwhile Texas reports a sale of 1,500 head of two-year-old steers, extra good quality and breeding, at \$26 per head; this price reported as the highest price ever paid for a big bunch of two-year-olds. It is very noticeable the absence of cows in the arrivals of Texas cattle now coming to the yards. Thousands of fine bulls passed into Texas in the past twelve months, and breeders of fancy bulls report an enormous trade for Texas alone. The wild Texas "ranger" and "canner" and "scalawag" will soon be a shadow of the past; they have been getting scarcer every year, and in a few more one may hope to see such never again. Brother McKinley's little bill has a sop in it for the cattle raiser, putting a duty of \$6 per head on all cattle crossing the line of Old Mexico. Reports come from the great State of Chihuahua that cattle are not as plentiful as in former years; by the bye, it is said the largest individual cattle holder in the world lives in that State—he owns, right out, 100,000 head of cattle. If late despatches from Wyoming and the report of the secretary of the State Board of Stock Commissioners of Montana are well founded, it may be just as well to let the Old Mexico cattle come in free. "On the Upper Platte range the cold weather of the past few days very disastrous—and even wolves very troublesome, in some cases killing full-grown steers." The secretary

writes: "Unless relief comes at once the loss will be the heaviest in years." Perchance patience in waiting for the spring accounts better suitable to pocketbook than speculating in high price cattle based on present accounts of large losses. However, the prices paid on cattle last week good all along the line. Eastman, for the sake of Johnny Bull, paid \$5.10 for some 1,611-lb Herefords and Shorthorns, and the United Dressed Beef Co. paid \$5.10 for some fine 1,469-lb average; Meyer paid \$4.85 for some 1,438-lb average, Eastman \$4.90 for some 1,467-lb average, Red Pollard and black cattle; Schwarzschild purchased some fine 1,425-lb average at \$4.65; Hammond, same price for 1,512-lb average. In fact, the sales of fat cattle during past week kept well over the \$4.50 line.

Cows and heifers, both native and range, in very moderate supply—sold well and quickly. Cows going as high as \$3.50—a few sales \$3.60, but only a few. Heifers of 923-lb average sold to Swift at \$3.80; some Southwestern heifers, 801-lb average, at \$3.75; some New Mexican heifers, finished in Kansas, 773-lb average, at \$3.70—both lots sold to Swift. Texas heifers, 696-lb average, sold at \$3.65; fed Texas steers of 1,308-lb average at \$4.20, sold to Armour; some fed Texas, 1,172-lb average, at \$4.20, sold to Dold Packing Co.; quite a bunch of New Mexican steers, Kansas fed, sold to Armour at \$4.05; the common run of Texas well-fed ran up to \$3.65 to \$3.80; cows of 904-lb average, \$3.25. Feeder trade only curtailed by quantity; an assorted lot sold at \$4.85. Some choice heavy fed, taken to finish, at \$4.40, and some choice run of calves, 463-lb average, sold at \$4.65. It is expected that farmers will hold on to their stock this year as long as possible, with plenty of grain in sight. Though tempted by high prices, a good many feeders send in their half-fattened cattle to realize on that cost them much less in price four months ago. A story is told—be it true or not, is a question—of a farmer who purchased some low-priced cattle, fed them with corn, they were nearly finished. The old man, the old lady and the boys came to the conclusion, better ship the cattle and realize on the present handsome profit. They shipped; the cattle purchased by a daring speculator on an excited market; the old man, who came alone to market, tickled to death at the profit. He wanted to buy some good feeders, but several days passed without purchasing—could not find just what he wanted to make good money out of the corn at home. He gave the job to a commission man, who sent the old man home, rejoicing with three loads of steers. To be sure, he had to pay 1/4c. more than his own cattle sold for, with the other little charges. He arrived, told the boys the good news, and they all felt happy over the amount made on the former lot. They commenced unloading the steers; the boys looked at the steers, then at one another, then at the old man, who imagined somehow that these steers had a terrible familiar look about them. As the steers came out of the cars the old man's jaw fell lower and lower, and one may guess his heart was in his boots when his boys roared out: "Dad, these is the same dog-goned cattle you took away!" The old man looked toward the farm house—there was the old lady coming down, with a smile on her beweazened features, to see the new cattle—there was more of a prayer than command in the old man's cry: "Boys! they surely is, but don't

ye never tell mother!" Now, the above tale is vouchered for by that truth-telling young stock writer on the Salt Lake Tribune—and you know the saints "never tell no lies."

Shipments of feeders to the country 232 cars, with 336 cars previous week and 171 cars corresponding week 1896. Shipments of exports 140 cars, against 120 cars previous week, and 85 cars corresponding week in 1896. The principal outside purchasers for the week: Eastman 904 head, Swift 338 head, Hammond 259 head, United Dressed Beef Co. 164, Schwarzschild & Sulzberger 434, Krauss 352, Michael 151, Balling 90 and Kaufman & Strauss 107 head.

At last we have a \$4.12½ hog—and a very good article it is—the highest price since Jan. 28, 1896. Now may such a hog continue long in the land. During first part of week some complaint of a poor run, and some poor Southern hogs went to the block at \$2.25. Pigs for the week had a wide range from \$3 to \$3.65, Yorkers from \$3.55 to \$3.90. Light hogs, Monday, \$3.65 to \$3.90, steadily up to \$3.80 to \$4.05. Mixed packing to prime medium started Monday at \$3.80 to \$3.90, steadily to \$3.90 to \$3.95, a setback on Friday in extreme ranges, but ending Saturday at the \$4.12½ mark. Heavy hogs kept up a steady upward pace, Monday \$3.80 to \$3.95, and halted Friday at \$3.95 to \$4.07½. The tops for the week showed a steady gait of gain of 17½c. per 100 lb over Monday's opening sales—they started out \$3.95 Monday and closed Saturday's noon sale at \$4.12½. The bulk on Monday opened \$3.85 to \$3.90, tipped Wednesday a value of \$3.95 to \$4—the packers then tried to give them a black eye with \$3.90 to \$3.95, but the American hog laughed the foemen to scorn, and grunted its way Saturday noon, if not to the packers' affections, to the packers' pocketbook, to the tune of \$3.95 to \$4.05. The packers know well they can slaughter that hog on Monday morning, but whether they can slaughter that price is a muchly-mooted question just now—and it is to be hoped they cannot. Low-priced goods are not profitable—it would be better for every man, woman and child in the States that the price was \$5, instead of \$3.50. No margins for any person on low-priced goods. Shipments of hogs for week 2,370 head. Mexico out of market. Chicago took five cars, Omaha—bless the mark—three cars, and Ottumwa four cars. The average for the week the lightest for the year, only 215 lb; previous week 219 lb and corresponding week 1896 gave 236 lb.

The sheep market gave some signs of strength, though not to any pronounced amount. Native lambs of 89 lb average sold at \$5; some 110-lb average at \$4.80; Colorado lambs, 68-lb average, \$4.45; a bunch, 65-lb, at \$4.65; some Colorado yearlings, 82-lb, \$4.05, and 105-lb, also \$4.05; some Montana, 105-lb, at \$3.80; New Mexican lambs, 65-lb, at \$4.55; some choice Idaho muttons purchased by Swift and Company, 130-lb average, at \$4; Dold Packing Co. also purchased some at same price; Utah, 116-lb average, sheep, at \$3.75. A good clearance made—trash and everything going to clearance. The statement that the Sydney (New South Wales) ram President sold for \$8,000 brought the highest price ever paid is contradicted by the American Sheep Breeder—a \$16,250 ram, a Merino, sold in Victoria some years ago. A Lincolnshire ram sold in Melbourne in 1873 for the modest sum of \$15,750.

Highest Prices Paid for ~ Pork and Beef Scrap.
CORRESPONDENCE SOLICITED.
E. RAUH & SONS, 219 S. Penna. St., INDIANAPOLIS, IND.

THEO. SMITH & BRO.

Manufacturers and Designers of Special Machinery for Oleo Oil and Butterine Factories and Lard Refineries.

FOOT OF ESSEX STREET, JERSEY CITY, N. J.

P. O. Box 98.



The Grasselli Chemical Co.,

NEW YORK,
CINCINNATI,

CLEVELAND,
ST. LOUIS.

Manufacturers of

FERRIC SULPHATE

For increasing the yield of ammoniates in blood.

SULPHATE OF AMMONIA.

AQUA AMMONIA, 26°
For Ice Machines.

Glauber's Salt and Sal Soda
For Tanners.

Chloride and Sulphate of Zinc
For Glue Makers.

TINNING FLUX

For Tinning Meat Hooks.

EUREKA SOLDERING FLUX.

Sulphuric, Muriatic and Nitric Acid.

CORRESPONDENCE SOLICITED.

THE PONTIFEX ICE AND REFRIGERATING MACHINE.

Refrigerant: Anhydrous Ammonia. Direct Expansion or Brine Circulation. Simple, Economical, Durable, Efficient. Particularly adapted for the Refrigeration of Packing Houses, Abattoirs, Cold Storage Warehouses, Fish Freezers, etc., and all work requiring low temperatures. 600 plants in operation at home and abroad. Address:

THE HENRICK MANUFACTURING CO., Ltd.,
Carbondale, Pa.

MANUFACTURERS OF ALL KINDS OF

DRYERS

and of all sizes, from 3 to 5 feet Diameter, for FERTILIZERS, CHEMICAL WORKS, and all other purposes.

Odorless in Operation. Give universal satisfaction

THE SMITH PATENT

Deodorizing Condenser

Tallow Rendering Tanks, Lard Coolers, etc.

Used in the leading Packing-Houses and Abattoirs and by the principal Butchers throughout the country.

SEND FOR CATALOGUE AND PRICE LISTS.

The EGRY Total Summary Register

On which a patent has just been granted and is about to go to issue.



Price list and catalogue for the asking.
Printers of Stationery for all kinds of Registers.

THE EGRY AUTOGRAPHIC REGISTER CO.

Dayton, Ohio, U. S. A.

Insulating Paper.

Guaranteed Pure Manilla Rope.

Made Especially for Lining Refrigerators, Cold Storage Buildings, Refrigerator Cars, Ice Houses, and Drying Kilns.

Samples and Prices for the Asking.

C. S. GARRETT & SON,
PAPER MAKERS,

Nos. 12 and 14 Decatur St., Philadelphia, Pa.

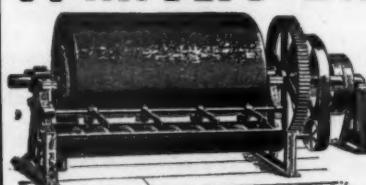
FILL OUT THE COUPON ON PAGE 26

W.M.R. PERRIN & CO. CHICAGO.

COOLING CYLINDERS

\$200.00 AND UP.

Send for our Catalogue.



HIDE AND SKIN MARKETS. CHICAGO.

PACKER HIDES.—Traffic has been much more active this week than last, and present indications point to an advance of from 20 to 25 per cent. on short-haired hides. Stock continues in very limited supply and first selections are in demand at a premium. The scarcity may in a measure be ascribed to the fact that 75 per cent. of the range animals have succumbed to the severe weather. Many buyers seem possessed of the idea that drop in prices will be a condition of the early future, but to the unbiased element this seems a fallacious theory. Firm prices usually constitute food for suspicion among hide buyers. The sooner they learn that a waiting policy does not apply under all conditions, and that it has frequently involved the "waiters" in painful losses, the better for their general prosperity. We do not mean to say that premature purchase may not be a factor to loss, but that discrimination as to "the accepted time" to buy is a material requisite of success. We quote:

No. 1 NATIVE STEERS, 60 lb and up, 9 $\frac{1}{4}$ c. for all weights. About 7,000 have been sold at this price.

No. 1 BUTT-BRANDED, 60 lb and up, have been sold at 8 $\frac{1}{4}$ @8 $\frac{1}{2}$ c., and are in fair demand at the latter quotation.

COLORADO STEERS, 60 lb and up, are in limited supply, and are in good demand at 7 $\frac{1}{4}$ @7 $\frac{1}{2}$ c.

No. 1 TEXAS, 60 lb and up, are being readily sold at 8 $\frac{1}{4}$ @8 $\frac{1}{2}$ c.

No. 1 NATIVE COWS, 55 lb and up, free of grubs and brands, are in good demand at 8 $\frac{1}{4}$ c.; under 55 lb the request is fairly active at 9 $\frac{1}{4}$ c.

BRANDED COWS are sold readily at 8 $\frac{1}{4}$ @8 $\frac{1}{2}$ c.

NATIVE BULLS are in good demand at 7 $\frac{1}{4}$ c., while No. 2s are firm at 6c.

COUNTRY HIDES are in very limited supply, arriving in the market in installments. At present prices the margins to dealers are so small that there is but little incentive for them to devote the time necessary to obtain them, and comparatively few are to be had, any way. To view the situation from a conservative standpoint, quotations seem likely to remain very firm, and there are not wanting those who claim that an advance in the early future is inevitable.

No. 1 BUFF HIDES, 40 to 60 lb, free of grubs and brands, are strong at 8 $\frac{1}{4}$ c.; No. 2s, 7 $\frac{1}{4}$ c.; No. 1 continue scarce, while No. 2s are in fair supply.

No. 1 EXTREMES, 25 to 40 lb, are firm at 8 $\frac{1}{4}$ @9c.; No. 2s at 8 $\frac{1}{2}$ c.

No. 1 NATIVE STEERS, 60 lb and up, free of grubs and brands, sell readily at 8 $\frac{1}{4}$ c.; No. 2s, 7 $\frac{1}{4}$ c. Continues in limited supply.

HEAVY COWS, 60 lb and up, free of grubs and brands, are sold at 8 $\frac{1}{4}$ c.; No. 2s, 7 $\frac{1}{4}$ c.

BRANDED STEERS are offering at 7 $\frac{1}{4}$ @7 $\frac{1}{2}$ c.

BRANDED COWS are in good request at 7 $\frac{1}{4}$ @7 $\frac{1}{2}$ c.

NATIVE BULLS are in light supply, and do not sell readily. They are quoted at 7c. for No. 1s and 6c. for No. 2s.

CALFSKINS, 7 to 15 lb, are in very light demand, a few cars having been sold at 11 $\frac{1}{4}$ c. for city. The accumulation is light and few are coming into the market.

KIPS, 15 to 25 lb, are light in supply and demand, and sold at 9 $\frac{1}{4}$ c. for No. 1s and 8c. for No. 2s.

DEACONS sell at 40@45c., according to weight. They are slow sellers.

SLUNKS, 25c.

HORSE HIDES in fair demand at \$2.75@\$2.85.

KANSAS CITY.

As the big fish in the tanner pool still swallows the packer hide man laugheith in his heart, and all is bright as the mid-day sun—and if Brother McKinley's bar'l of prosperity is full indeed, and enough to go round and give all hands a little to do, the packer man can continue his rejoicing. Still, we have seen him on such heights before—aye, tumble down—and that pretty badly, and should the leather trade continue in its present halting manner there may be a withdrawal from the market of more tanners—for it seems to be a fact that unless leather advances the present prices too high by $\frac{1}{2}$ c. to 1c. per lb—still the selling keeps right along—somehow the Texas, butts and Colorado steers go steadily out of the cellars almost before they are cured—and a pack of branded cows remaining in the cellar is getting to be scarcer than "hen's teeth," as one of the packer salesmen aptly expresses it. He also says that the present market prices are "stronger than boarding house butter!" Well, they may be in more ways than one—especially when the poor tanner gets the butter home and tries to eat it. But we must take the world as we find it—just now prices are good and hides are poor, so that if packer and tanner come near to a trading point, better "swap" the goods to mutual advantage, even if a little fraction concession. It is hard to find a substitute for sole leather—but leather for upper purposes can be made from many things—and a good many substitutes will be found to take the cowhide's place.

BOSTON.

This market is characterized by increased firmness, despite the fact that the disposition to buy is light. We quote:

NEW ENGLAND HIDES are firm at 8 $\frac{1}{4}$ c. flat.

CALFSKINS are in small supply with a decided tendency to advance.

PHILADELPHIA.

A firm market, lighter business and small acquisitions constitute the situation here. We quote:

CITY STEERS, 8@8 $\frac{1}{4}$ c.

CITY COWS, 7 $\frac{1}{2}$ @8c.

COUNTRY STEERS, 7 $\frac{1}{4}$ @8c.

COUNTRY COWS, 7@7 $\frac{1}{2}$ c.

BULLS, CITY, 7@7 $\frac{1}{2}$ c.

CALFSKINS.—Increased receipts, market less firm.

NEW YORK.

HIDES.—Receipts are sold on arrival at current quotations. The "company" is the principal buyer of the green salted city product. We quote:

No. 1 NATIVE STEERS, 60 lb and up, 9 $\frac{1}{4}$ c.; grubby, 8 $\frac{1}{2}$ c.

No. 1 BUTT-BRANDED STEERS, 60 lb and up, 8 $\frac{1}{4}$ c.

SIDE-BRANDED STEERS, 60 lb and up, 7 $\frac{1}{4}$ @7 $\frac{1}{2}$ c.

COWS, 7 $\frac{1}{4}$ @8 $\frac{1}{2}$ c.

BULLS, 7 $\frac{1}{4}$ @7 $\frac{1}{2}$ c.; branded, 5 $\frac{1}{4}$ c.

COUNTRY COWS, 8c.

CALFSKINS, 11 $\frac{1}{4}$ c. for No. 1s.

HORSE SIDES, \$2.60@\$2.75.

SUMMARY.

The passive conditions by which the hide and skin markets are at present distinguished leave little to be said in regard to them. To sum the matter up concisely, hides are extremely scarce, prices very strong and the prospects of increased supply at an early date particularly remote. Just when the market will be eased or just what conditions will contribute to a more generous supply, are a matter of pure conjecture. It would be the wildest fiction to advance any opinion on these subjects. It would seem from the conservative disposition manifested by hide buy-

ers that they intend emulating the policy of the loquacious and sanguine Micawber, the chief expectation of whose existence was that something might "turn up." Tanners claim that their trade will warmly antagonize an advance, and that the present season is a most unpropitious time to ask any increase. This is doubtless all true, but the fact remains that the present price of hides must (if they continue) exert an influence over leather values. The tanning element are not in business for the benefit of their health, and they will be compelled in self-protection to demand such a price for their product as is consistent with a living profit. As there is a comparatively limited accumulation of hides, few holders would derive any advantage from having purchased at old prices were the advance to occur next week. If a change in prices takes place it must be a general one, consequently the average tanner will be on a competitive basis with his neighbors, so far as the change in prices would affect him.

CHICAGO PACKER HIDES

We quote: Native steers, 60 lb and up, 9 $\frac{1}{4}$ c.; butt-branded, 60 lb and up, 8 $\frac{1}{4}$ @8 $\frac{1}{2}$ c.; Colorado steers, 60 lb and up, 7 $\frac{1}{2}$ @7 $\frac{1}{2}$ c.; Texas, 60 lb and up, 8 $\frac{1}{4}$ c.; branded cows, 8 $\frac{1}{4}$ @8 $\frac{1}{2}$ c.; No. 1 native steers, 55 lb and up, 8 $\frac{1}{4}$ c.; light, 9 $\frac{1}{4}$ c.; native bulls, 7 $\frac{1}{4}$ @8c.; branded, 5 $\frac{1}{4}$ c.

CHICAGO COUNTRY HIDES

No. 1 buff hides, 40 to 60 lb, 8 $\frac{1}{4}$ c.; No. 2s, 7 $\frac{1}{4}$ c.; No. 1 extremes, 25 to 40 lb, 8 $\frac{1}{4}$ @9c.; No. 2s, 8 $\frac{1}{4}$ c.; No. 1 native steers, 60 lb and up, 8 $\frac{1}{4}$ c.; No. 2s, 7 $\frac{1}{4}$ c.; branded steers, 7 $\frac{1}{4}$ @7 $\frac{1}{2}$ c.; heavy cows, 60 lb and up, No. 1s, 8@8 $\frac{1}{4}$ c.; No. 2s, 7@7 $\frac{1}{2}$ c.; branded cows, 7 $\frac{1}{4}$ @7 $\frac{1}{2}$ c.; native bulls, No. 1s, 7c.; No. 2s, 6c.; calfskins, 11 $\frac{1}{4}$ c.; kips, 9 $\frac{1}{4}$ @9 $\frac{1}{2}$ c.; deacons, 40@45c.; slunks, 25c.; horse hides, \$2.75@\$2.85.

No. 1 natives, 60 lb and up, 9 $\frac{1}{4}$ c.; grubbys, 8 $\frac{1}{4}$ c.; butt-branded steers, 60 lb and up, 8 $\frac{1}{4}$ @8 $\frac{1}{2}$ c.; side-branded steers, 60 lb and up, 7 $\frac{1}{4}$ @7 $\frac{1}{2}$ c.; cows, 7 $\frac{1}{4}$ @8 $\frac{1}{4}$ c.; bulls, 7 $\frac{1}{4}$ @7 $\frac{1}{2}$ c.; country cows, 8c.; country calfskins, 11 $\frac{1}{4}$ c.

BOSTON—

Buff hides, 8 $\frac{1}{4}$ c.; New England hides, 8 $\frac{1}{4}$ c.

PHILADELPHIA—

Country steers, 8c.; country cows, 7 $\frac{1}{2}$ c.; country bulls, 6c.

HIDELETS.

Nathan Allen, of N. R. Allen's Sons, Kenosha, Wis., well-known hide buyer, visited the swamp this week.

G. A. Vail, hide buyer for the United States Leather Co., has returned from Chicago. Mr. Vail went away not expecting to buy, but was tempted while in Chicago to buy three cars of country branded hides.

W. G. Lapham, the well-known hide broker, will remove his office from 9 Ferry street to 69 Gold street, fifth floor.

Ten thousand branded hides were sold in the New York market this week on private terms by Kanas City parties.

* It is reported that a wealthy New York syndicate, headed by Solon Humphrey, who has interested J. Pierpont Morgan and others, is getting ready to establish an immense beef canning establishment in Mexico, if the cattle duties proposed by the Dingley bill are enacted into a law. As the law now stands there is a big profit in bringing lean Mexican cattle across the Texas border and fattening them for the Northern market. The new bill will shut these cattle out of our markets, and compel the Mexican owners to find a new outlet. Humphrey's syndicate will have a million-dollar concession from Mexico, which they propose to utilize for cattle-raising purposes, and in connection with this they propose to put \$1,000,000 into a beef cannery. The establishment they are planning will compete with the output of the Chicago and Kansas City firms to foreign markets. Later—Mr. Humphrey said Thursday that he knew of no such project. He had heard the rumor that a large canning establishment is to be built in Tampico.

ALL BARRELS AND BOXES

OF THE

Genuine Preservaline

BEAR THIS TRADE MARK.

ESTABLISHED 1877.

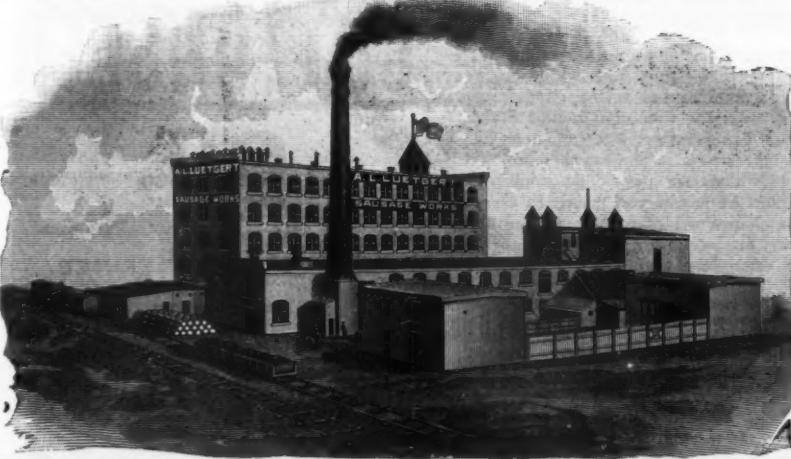


**TAKE
NO
OTHER!**

THERE IS
NOTHING AS GOOD
AS
PRESERVALINE!

*Beware of Imitations
which are claimed
to be*

"JUST AS GOOD."



**PHILIP H. GILL,
Millwright and Machinist**

Shafting, Pulleys, Bearings, Gearing, Etc.

DESIGNER AND BUILDER OF
Oil and Flour Mills, Grain
Elevators and Breweries...

TELEPHONE 337.

9 to 19 BOWNE ST., BROOKLYN, N. Y.

THE NATIONAL PROVISIONER.

ANNUAL SUBSCRIPTION

ONLY \$4.00 FOR 52 WEEKLY ISSUES.

PRESERVALINE

**P
R
E
S
E
R
V
A
L
I
N
E**



PRESERVALINE.

THE ONLY HEATHFUL,
RELIABLE AND
ECONOMIC

**PRESERVING
P
o
W
D
E
R
P
O
W
D**

FOR MEATS OF ALL KINDS.

Especially Adapted
to Export Trade.

Used by the best and foremost packers in
this country, England, Germany, Aus-
tralia, South Africa, Etc.

MADE ONLY BY THE

**Preservaline
Manufacturing Co.**

HEAD OFFICE:
No. 12 CEDAR STREET, NEW YORK.

BRANCHES:
No. 183 Illinois Street, CHICAGO, ILL.
No. 45 Second St., SAN FRANCISCO, CAL.
No. 7 Queen St., MELBOURNE, AUSTRALIA.
also London and Berlin.

The A. L. Luetgert •

Sausage ^{AND} Packing Co.

601 to 629 DIVERSEY BOULEVARD,

TELEPHONE, LAKE VIEW 217. **CHICAGO, ILL.**

Manufacturers of all kinds of
**German, Italian and French
Sausages.**

NEW AND ORNAMENTAL.

Guaranteed not to split. **Block**,
when worn, can be replaced at small
cost. **Very heavy** and substantial.
Sections glued and bolted.

To introduce this block we offer
same freight paid to your Railroad
Station in U. S. A. for cash with
the order.

Size.	Price.	Size.	Price.
20 x 20.....	\$ 9 00	30 x 30.....	\$14 00
25 x 25.....	11 00	30 x 35.....	16 00
25 x 30.....	12 50	30 x 50.....	21 00

Wolf, Sayer & Heller,

MANUFACTURERS.

*Sausage Casings. Everything in
Butchers' Supplies.*

120 Pearl Street, New York.
Fulton and Peoria Sta., Chicago.

PEERLESS BLOCK.

NEW YORK PRODUCE EXCHANGE NOTES.

Mr. Jos. C. Bailey, manager of the Jersey City Packing Co., was on 'Change this week after a two months' absence in Europe, and says that the beef trade is not in very encouraging shape on the other side, either present or prospective.

Membership tickets are in a better position and prices are correspondingly higher. Asking prices are now at from \$225 to \$250. This is a little encouraging, although very considerable betterment is yet needed before prices will be on anything approaching a satisfactory valuation basis. The long-deferred trade boom, when here, will doubtless favorably affect the prices of membership tickets. It can't come any too soon!

The certificates standing in the names of Benjamin O. Thomas and P. R. Schoening will be sold at auction in the Exchange reading room on April 14 at 2:30 P. M.

Among the visitors we noticed during the week were T. Mendey, New York, introduced by Mr. C. Rabidan, and W. L. Green, Jr., St. Louis, introduced by W. P. Callaghan; also Walter Fitch and A. W. Allen, of Chicago, by H. G. Gibbs, and C. W. Brega, Chicago, by W. H. Wallace.

The following gentlemen were proposed for membership: Justin Mends, proposed by I. Rabidan; Owen Forgusson, by W. H. Guimaraes, and L. T. Carney, by Wells Finch.

SAFE DEPOSIT VAULTS.

A visit to the safe deposit vaults in the basement of the New York Produce Exchange would well repay any of our readers who have never examined them. This is distinctly a Produce Exchange enterprise, almost the entire capital stock—\$150,000—belonging to members of the Exchange. Established in 1883, the business has steadily grown until it is now one of the most successful of the Exchange institutions, and with this increase has been a constant endeavor on the part of the management to improve the system of safeguards. The great vault, one of the largest of the kind, has never been surpassed in strength, and the locks, electrical devices, etc., are of the most improved pattern. No better indication of the character of the management could be had than the list of trustees, among whom we might recall as particularly well known on the Exchange, James McGee, Alfred M. Hoyt, Alexander E. Orr, Samuel Jacoby, Gustav H. Schwab, Forrest H. Barker, John Sinclair and Wm. A. Nash. Another striking feature is the moderation of the charges. Five dollars a year will rent a compartment with separate keys, large enough to hold a number of securities, policies, bank books, etc., placed in an impregnable vault, located in a building remarkable for its solidity and unusual security from fire, surrounded by every modern safeguard and watched day and night by armed men.***

COTTONSEED OIL AND SOAP ITEMS.

(See page 30 also.)

A charter has been granted to the Purcell Cotton Oil Co., in Purcell, Oklahoma, with a capital of \$50,000. The directors are George F. Johnson, B. J. Love, L. C. Wantland, Thomas McColgan, A. J. Cooper and S. T. Williams. The company will build an oil mill at a cost of \$40,000.

R. R. Griswold, recently of the firm of C. D. Middlebrook & Co., will soon begin the manufacture of laundry and toilet soap on a large scale in Binghamton, N. Y. He will erect a factory three stories in height. The services of A. H. Jones, of Buffalo, who has had considerable experience in soap making,

have been secured by Mr. Griswold. The factory will contain 10,000 feet of floor space.

Contracts for the erection of a cottonseed oil mill have been awarded by Robert Kaye, of Aberdeen, Miss.

T. G. McGraw, of Gaffney, and J. J. Bigerstaff, of Charlotte, N. C., are interested in a movement which is being made to organize a \$25,000 stock company to erect a cottonseed oil mill at Gaffney, S. C.

A soap house of iron and brick, to cost \$10,000, will be built by the Kentucky Refinery Co., of Louisville, Ky. The architect is Fred. Ehrhart.

White Plains, N. Y., March 25.—The "Splendor Manufacturing Company" of New Rochelle filed a certificate of incorporation here to-day. It is to manufacture soap and scouring and cleaning materials. Its capital stock is \$15,000. The company is incorporated for fifty years, with the following directors: Hazen Morse and Harrison T. O. Dunham, of New Rochelle; William H. Douglas and Isaac A. Macy, of New York City, and Henry F. Crosby, of Brooklyn.

THE SUPERIORITY OF BUTTERINE OVER BUTTER.

"The manufacture of butterine has been so far perfected," says the Jersey City (N. J.) Journal, "that it is considered by many to be fully equal to the best creamery butter for table use, and has received the unqualified endorsement of some of the highest scientific authorities."

In this connection, the Bechtelsville (Pa.) item says: "A medical man of this place, who has made a careful study of butterine, advocates the use of this compound in preference to butter. He claims that a good quality is safer and more healthful than the best grade of butter obtainable. He examined numerous samples of butter and found them contaminated with all sorts of germs, while the specimens of butterine examined were all free from germs."

Oleomargarine has found a defender no less important than the Massachusetts State Board of Health, and acting on the reports of that body, the Commissioner of State Institutions has substituted it for butter in the bill of fare on which the inmates of his prisons and almshouse live. The commissioner states that he has served "oleo" to those under his charge not merely on the ground of economy, but because it is better than butter of any except the very best grades.

* The mayor can be addressed for information in reference to the new market house which will be built by the city of Sedalia, Mo.

* Charles Phipps, of Kansas City, Mo., a traveling salesman for the Schwarzschild & Sulzberger Co., won \$2,000 on the result of the recent Fitzsimmons-Corbett fight. His good fortune unbalanced his mind.

COTTONSEED OIL.

WEEKLY REVIEW.

A DULL, DECLINING MARKET,

without stimulating business, has been the chief feature of the week. Crude, even, has shown less activity than the past two weeks, as refiners East and West have been out of the market, except for an occasional car lot at last week's prices, 16c. at Southeast coast and 15½@16c. in the Mississippi Valley for off grades and not strictly prime. Yet there has been no increased offering of crude, York, and old prices have been maintained for both, 20c. being bid and 20½c. asked at the latter market, with this difference keeping buyers and sellers apart, no transactions having been reported. There have been small lots of winter oil sold at 29c., with white and butter quoted nominal at 26@26½c., while the only transactions reported in prime summer yellow were jobbing lots at 23½c., New York, late last week, and at 23c. midweek. Not an exporter has been in the market, unless it may be to fill out old shipments with a few hundred barrels, as there has absolutely been no export demand, so far as new business was concerned. Not even the talk of France advancing its duty on beef fats and cotton oil has had any effect whatever on the

Josiah Macy's Sons,

Receivers of

COTTONSEED OIL

CRUDE AND REFINED.

191 Front Street

NEW YORK.

THE JACKSON REFRIGERATOR CO.

Cold Storage Architects and Engineers.

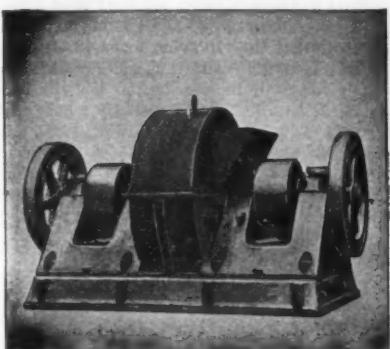
PACKING HOUSE PLANTS. We make plans for modern Packing House Plants, with machinery of the latest design for Killing, Rendering, Refining and Making Oleo, Neutral, Glue, Fertilizer, etc. Our plants embody all the most advanced ideas.

MECHANICAL REFRIGERATION. We design complete, mechanical Cold Storage Plants, with valuable improvements in insulation, ventilation and mechanical equipment.

VENTILATION. We make the ventilation of machine refrigerated houses a specialty. Fresh air without condensation or fluctuating temperatures.

ICE REFRIGERATION. Our new low temperature ice system gives a dry air at 32 degrees, and is unequalled for carrying perishable goods. It produces a purer, sweeter air and better results than most machine houses.

325 SO. DEARBORN STREET, CHICAGO, ILL.



"Stedman's Disintegrators" ARE THE BEST

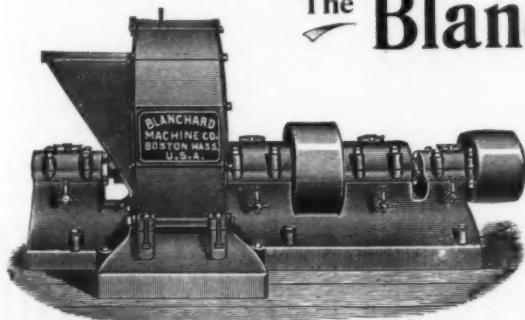
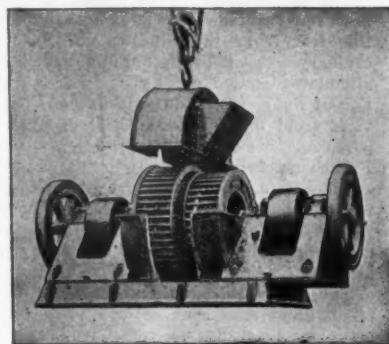
Are used by nearly every large packing house and fertilizer establishment in the United States. References:

Armour & Co., Chicago and Kansas City.
Swift & Co., Chicago, Kansas City and East St. Louis.
Cudahy Packing Co., Omaha, Neb.

Write for Catalogue and full Descriptive Matter.

We manufacture machinery for equipping complete fertilizer plants, consisting of Disintegrators, Bone Breakers, Mixing Pans, Screening Elevators, Engines, Boilers, Shafting, Pulleys, etc.

Stedman Foundry and Machine Works, **AURORA,**
IND.



The Blanchard Disintegrator

IS THE ONLY UP TO DATE MACHINE.

It is the result of scientific design, backed up by careful tests and long experience. It is not everybody that can build a Disintegrator that will give satisfaction under severe conditions and hard service. To accomplish this result

THE CONSTRUCTION MUST BE OF THE VERY HIGHEST GRADE.

The **Blanchard Disintegrator** will grind Bone, Glue, Tankage, Soap Powder, Caustic, Salt, Chemicals, Sticky and Resinous material, and in fact any brittle or soft material.

Write for catalogue giving full information regarding your material.

BLANCHARD MACHINE CO.,

**808 Congress St.,
BOSTON, MASS.**

The Enterprise

New Power Meat Chopper

Capacity fifty per cent. greater than the same size of the old pattern.

Absolutely noiseless as there are no gears.

Knives and Plates last twice as long.

No. 56 Corresponds in size with our old No. 52 \$125.00

No. 66 Corresponds in size with our old No. 62 \$225.00

The Enterprise Mfg. Co. of Pa.
Philadelphia, Pa., U. S. A.



Send for Illustrated Descriptive Circular.
Consult your Supply House.

market for any kind of soap stock, although press reports from the other side are generally credited to the effect that France will retaliate on the United States for its proposed increased tariff on foreign goods. Exporters, however, seem to have paid no attention to this feature of the situation, which, under ordinary conditions, would be sufficient to stimulate demand quite sharply in anticipation of the increased duty. Whether their advices from the other side discredit this proposed increase of duty by France, or whether French markets are utterly indifferent to our supplies, is a conundrum. At all events, notwithstanding, holders here have weakened, in face of this contingency, instead of strengthened their views, as ordinarily under such conditions. At the same time there has been a higher market for lard and a more bullish feeling and sentiment at the West in hog products generally on continued light hog supplies, and it is now admitted that there is a material shortage in the crop. But this latter influence seems to have been as utterly without influence on cotton oil as has been the former. This seems to be the chronic condition into which the market has gotten at the North, while there is no change in the situation, so far as reported, at the South, production continuing as light as of late and at the minimum of the season, if not still further reduced. Stocks, however, are considered to be quite fair, estimates generally agreeing on 75,000 bbls. throughout the Southern States, including port and interior stocks, while in New York we are able to confirm estimates published in our last to the extent of 25,000 bbls., with a possibility of 5,000 additional, which appears to be the outside probability. Of this, the American company is the chief holder, Williams-Flash & Co. the next, Hopkins, Dwight & Co. the third, outside of which we can learn of only a few hundred barrels held by other parties. The Southern company is said to hold no stock whatever in New York, and is estimated to have about 25,000 bbls. mostly at Southern points. As to the holders of the other 50,000 bbls. estimated at the South, no figures or names are given, though they are supposed to be distributed in about the proportion of production among the leading producers. Transactions for the week were:

On Saturday last a tank of crude at Southeast coast, 16c., and 100 bbls. prime summer yellow at New York, 23½c.

On Monday two tanks, Southeast coast, 16c., all to come to New York, with 23½c. asked for prime summer yellow, and no bids whatever.

On Tuesday another tank of crude at the Southeast at 16c., and 400 bbls. winter oil at 20c. in New York, were reported.

On Wednesday 400 prime summer yellow sold in New York at 23c., or one-half off from the last prices, early in the week, with a little more inquiry at the decline, while the leading holders still asked 23½c.

(For Later Report See Page 40.)

THE NATIONAL PROVISIONER.

ANNUAL SUBSCRIPTION

ONLY \$4.00 FOR 52 WEEKLY ISSUES.

CONCERNING LUBRICANTS.

"The National Provisioner" takes pleasure in calling the attention of steam plant operators, in which comprehensive classification are included pork and beef packing establishments, linseed and cotton oil mills, fertilizer factories, refineries, etc., to the very excellent form of lubricants which the New York and New Jersey Lubricating Co., of 30 Cortlandt street, offer. The grades are prepared to meet all requirements, shaftings and bearings of all sizes and speed, and we know from practical experience that a trial will insure its permanent use. The absence of waste is one of the striking features of this desirable compound; no drip, which insures absolute cleanliness and economy conjointly, thereby showing not only a great saving in material, but more especially in the labor employed in looking after and application of same. The use of this preparation is practically a guarantee that excessive heating under ordinary conditions becomes impossible. The significance of this latter will be readily understood by practical machinists and engineers, and we would again remind our subscribers that their interests will be subserved by communicating with Mr. T. A. Matthews, the courteous secretary and treasurer of this enterprising company, who will gladly furnish all needed information.

As a further guarantee of the undoubted merits of the lubricants referred to and corroborative of the foregoing, it is only necessary to state that the following firms whose names have a national reputation, have discarded all other forms of lubricants and use the N. Y. & N. J. Lubricating Company's goods exclusively: The New York Herald, J. L. Mott Iron Works, Messrs. Jas. Pyle & Son, De La Vergne Refrigerating Machine Co., Interior Conduit and Insulation Co., Ferguson Brothers, and a large number of others.***

PORK PACKING.

Special reports show the number of hogs packed at the undermentioned places from March 1 to March 17 as follows:

	1897.	1896.
Chicago	275,000	210,000
Kansas City	115,000	85,000
Omaha	60,000	46,000
St. Louis	62,000	50,000
Indianapolis	23,000	13,000
Cincinnati	33,000	27,000
Milwaukee, Wis.	20,000	17,000
Cudahy, Wis.	15,000	16,000
Ottumwa, Iowa	21,000	9,000
Cleveland, Ohio	25,000	13,000
Louisville, Ky.	14,000	8,000
Sioux City, Iowa	11,000	8,000

ARE YOU OUT OF EMPLOYMENT?
DO YOU WANT A POSITION? TRY A
LITTLE AD. ON PAGE 45.

E. H. FERGUSON, President. R. C. WAGGENER, Treasurer. J. J. GAFFREY, Secretary.

KENTUCKY REFINING CO.

LOUISVILLE, KY., U. S. A.

Refiners of All Grades of

COTTONSEED OIL.

"ECLIPSE" BUTTER OIL.

SUMMER { White 1/8 Oil.
Yellow C/S Oil.

"SNOWFLAKE" PRIME SUMMER WHITE.

WINTER PRESSED { White C/S Oil.
Yellow C/S Oil.

SUMMER AND WINTER WHITE "MINERS" OIL. YELLOW AND WHITE COTTONSEED STEARINE.

CRUDE C/S OIL. "RED STAR" SOAP. SOAP STOCK.

TANK CARS FURNISHED FREE FOR SALES OR PURCHASES.

SPECIALTIES:

"SNOWFLAKE" PRIME SUMMER WHITE. This oil is prepared especially for Lard Compounds; is sweet and wholesome, being bleached without a particle of acid. A trial means you will use no other.

"ECLIPSE" BUTTER OIL. A strictly choice Vegetable Oil, selected and prepared especially for Butter Manufacturers; equaled by none other for quality and uniformity.

"DELMONICO" COTTON OIL. This brand of Cooking Oil needs no introduction; speaks for itself, and for Culinary Purposes is synonymous with finest.

"NONPAREIL" SALAD OIL. A strictly Winter Pressed Oil, prepared expressly for Druggists, Culinary and Salad Purposes; guaranteed to remain bright and limpid at 32° Fahr.

"KENTUCKY REFINING CO.'S" WINTER PRESSED OILS. Guaranteed pure and to remain bright and limpid at 32° Fahr. The very best made for any climate.

Quotations furnished upon application.

KENTUCKY REFINING CO.

2017 to 2033 Shelby Street,

LOUISVILLE, KY.

Cable Address: "REFINERY" LOUISVILLE.

GLOBE REFINING CO.

REFINERS OF
COTTON OIL.

Prime Summer White

FOR LARD COMPOUNDING.

Quality Guaranteed. All Other Grades of Cotton Oil.

CABLE ADDRESS,
"GLOBE, LOUISVILLE."  Louisville, Ky. DIAMOND FULLING AND SCOURING SOAP.

Obtain our prices before buying.

Weir & Craig Manufacturing Co.

2425-2439 WALLACE ST.
CHICAGO, ILL.

MANUFACTURERS AND
DESIGNERS OF

Special Machinery

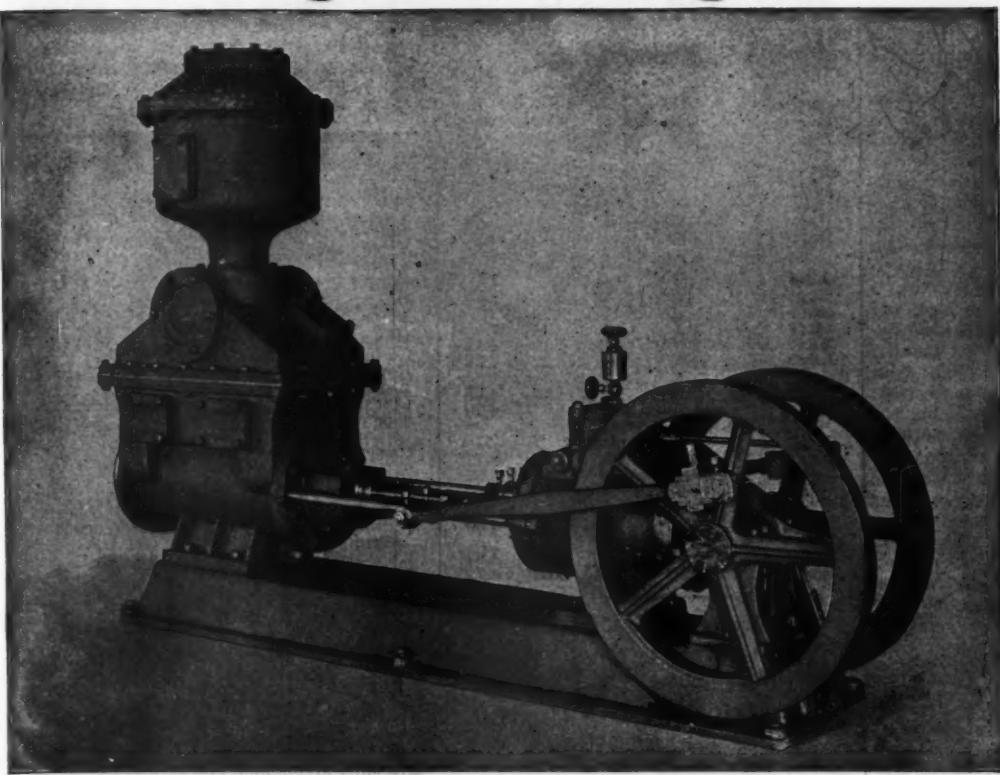
FOR
PACKING HOUSES,
Oleo Oil and Butterine Factories,
Lard Refineries
and Fertilizer Works.

COMPLETE OUTFITS
For Meat Canning, and Beef Extract Factories.

Friction Elevators, Hoists,
Droppers, Switches, Railing,
Filters, Oleo Oil and Lard Presses. All kinds of Lard Coolers. Evaporators, Hashers for Pork or Beef Fats.

Conveyors, Shafting, Hangers and Pulleys. Steam and Power Pumps. Vacuum, Air and Artesian Well Pumps. Shackles, Branders, Fat and Bone Washers, Bone and Horn Saws, etc., etc.

Improved Hog Scraper,
Capacity 700 Hogs per Hour.



The Standard Double Acting Vacuum Pump is for any purpose where the Vacuum process is necessary, such as Sugar Refineries, Condensed Milk Factories, Concentrating Extracts, Chemicals, etc. It can either be used for a dry or wet process. The workmanship and material used in their construction is of the best character.

W. C. HEIDELBERGER.

Members N. Y. Produce Exchange.

P. C. HEIDELBERGER.

C. HEIDELBERGER'S SONS, Pork Packers and Lard Refiners.

Main Office and Packing House,
110-114 Dupont Street,
537-541 Manhattan Avenue,
BROOKLYN, N. Y.

Silver Spray Brand of Lard. Curers of Golden Star
Brand of Provisions. Receivers of Western
Dressed Beef, Hogs, Calves and Mutton.

BRANCH HOUSES:
19 Bloomfield St., West Washington Mkt., N. Y.
326 Manhattan Avenue, Brooklyn, E. D.
71 Vernon Avenue, Long Island City.

William Ottmann & Co.,
BUTCHERS, PACKERS AND EXPORTERS,
FULTON MARKET, NEW YORK.

PROVISIONS,
POULTRY
AND GAME,

G. & D. ISAACS,
**WHOLESALE
BUTCHERS**
MANUFACTURERS OF
DUESSETT BRAND EXTRA OLEO OIL, Stearine, etc.

"ECLIPSE" Silent Meat Cutting Machines

Are conceded by the Trade, both in this country and Europe, to be

THE BEST MACHINES EVER PUT ON THE MARKET.

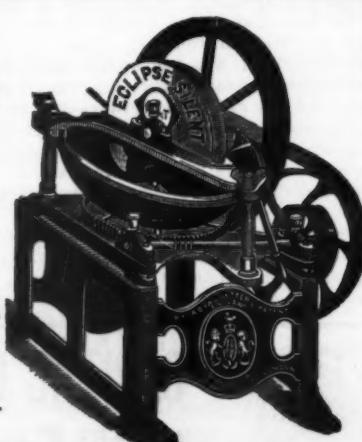
MANUFACTURED AND SOLD BY

DUNCAN MACKENZIE,
Union Iron Works

HAMILTON AVENUE, TRENTON, N. J.

Sold also by **WOLF, SAYER & HELLER,**
Fulton and Peoria Streets, Chicago, Ill.
and 130 Pearl Street, New York.

SEND FOR CATALOGUE.



It Pays Others—It Will Pay You.

Directory of Cotton Oil Mills

ALSO OF

BUTTERINE FACTORIES IN EUROPE

APPEARS IN OUR

YELLOW BOOK

THE MANUFACTURE OF

COTTON SEED OIL.

JUST PUBLISHED.

Send Check or Postal Order for \$3.25.

The National Provisioner Publishing Co.,

284-286 Pearl Street,
NEW YORK.

11 Rialto Building,
CHICAGO.

CHICAGO PROVISION MARKET.

The market for the past week has ruled active and at a lower range of prices, in the neighborhood of \$9 for May pork, \$4.30 for lard and \$4.85 for ribs. There was very free selling by longs, who had a good profit in their deals, and it was only natural that a reaction from the top prices should come. The legitimate situation, barring the exception that the cash demand is not quite as strong as it was a week ago, is unchanged. The receipts of hogs continue way under the estimates and prices are above a profit in packing. Lard has been used as a football by most every one, and from the fact that early in the week there was but little if any cash demand, has been taken as a good excuse to sell it short. And at present there is probably a very large short interest in May lard, and any attempt by the shorts to cover would undoubtedly result in a strong upturn. Another bull argument for lard is the very light average of the hogs that are now being received; they are not the kind that show a big per cent. of lard. Stocks of lard for month of March will probably show a decrease of at least 20,000 tcs., indicating a greater consumptive demand than heretofore. Another thing to be taken into consideration by the investor or speculator is the fact that lard is now from $\frac{1}{4}$ c. to $\frac{3}{4}$ c. under ribs, a condition that was never seen before. When lard was selling at $\frac{1}{4}$ c. over ribs we predicted that they would change places, and ribs be $\frac{1}{4}$ c. premium. Our predictions have been more than realized. We don't advise a straddle now by selling ribs and buying lard, but we do advise to buy lard, any way. The packers undoubtedly own their stocks and are in a position to largely dictate the prices of the speculative articles, and at present they talk bullish and back up their talk by light selling and good buying on all weak spots in the market. The English houses, viz., the Continental and International, have been very heavy buyers of lard and ribs the past day or two. Yesterday they bought over 10,000 tcs. lard.

The market will undoubtedly have weak spots, but feel that on these spots provisions are a comparatively safe purchase.

CASH PROVISIONS.

The cash demand for sweet pickled and dry salted meats has not been quite as good as it was last week; buyers seem to be fairly well supplied for the present. We quote to-day: Sweet pickled hams, 8 to 10 average, 9 $\frac{1}{2}$ c.; 10 to 12, 9 $\frac{1}{2}$ c.; 12 to 14, 8 $\frac{1}{2}$ c.; 14 to 16, 8 $\frac{1}{2}$ c.; 18 to 20, 7 $\frac{1}{2}$ c.; skinned hams, 8 $\frac{1}{2}$ c.; clear bellies, 8 to 10 average, 6c.; 10 to 12, 5 $\frac{1}{2}$ c.; picnic hams, 5 to 6, 6c.; 7 to 8, 5 $\frac{1}{2}$ c.; 8 to 10, 5 $\frac{1}{2}$ c.; New York shoulders, 10 to 12, 5 $\frac{1}{2}$ c.; green hams, 10 to 12, 8 $\frac{1}{2}$ c.; 12 to 14, 8 $\frac{1}{2}$ c.; 14 to 16, 8 $\frac{1}{2}$ c.; 18 to 20, 7 $\frac{1}{2}$ c.; skinned hams, 8 $\frac{1}{2}$ c.; picnic hams, 5 to 6, 5 $\frac{1}{2}$ c.; 8 to 10, 5 $\frac{1}{2}$ c.; clear bellies, 8 to 10, 6c.; 10 to 12, 5 $\frac{1}{2}$ c.; dry salted bellies, 14 to 16, 5 $\frac{1}{2}$ c.; 16 to 18, 5 $\frac{1}{2}$ c.; 20, 5c.

RANGE OF PRICES.

THURSDAY, MARCH 18.

PORK—

	Open.	High.	Low.	Cloce.
May.....	8.72 $\frac{1}{2}$	8.90	8.70	8.90
July.....	8.85	8.97 $\frac{1}{2}$	8.82 $\frac{1}{2}$	8.97 $\frac{1}{2}$
LARD—				
May.....	4.22 $\frac{1}{2}$	4.27 $\frac{1}{2}$	4.22 $\frac{1}{2}$	4.27 $\frac{1}{2}$
July.....	4.32 $\frac{1}{2}$	4.37 $\frac{1}{2}$	4.30	4.37 $\frac{1}{2}$
RIBS—				
May.....	4.72 $\frac{1}{2}$	4.82 $\frac{1}{2}$	4.70	4.82 $\frac{1}{2}$
July.....	4.72 $\frac{1}{2}$	4.85	4.70	4.85

FRIDAY, MARCH 19.

PORK—

	May.....	8.95	8.97 $\frac{1}{2}$	8.85	8.95
	July.....	9.02 $\frac{1}{2}$	9.07 $\frac{1}{2}$	8.92 $\frac{1}{2}$	9.05
LARD—					
May.....	4.30	4.32 $\frac{1}{2}$	4.27 $\frac{1}{2}$	4.30	4.30
July.....	4.40	4.42 $\frac{1}{2}$	4.37 $\frac{1}{2}$	4.40	4.40
RIBS—					
May.....	4.90	4.92 $\frac{1}{2}$	4.80	4.85	4.90
July.....	4.90	4.90	4.82 $\frac{1}{2}$	4.87 $\frac{1}{2}$	4.90

SATURDAY, MARCH 20.

PORK—				
May.....	8.95	8.97 $\frac{1}{2}$	8.85	8.85
July.....	9.07 $\frac{1}{2}$	9.07 $\frac{1}{2}$	8.97 $\frac{1}{2}$	8.97 $\frac{1}{2}$
LARD—				
May.....	4.30	4.32 $\frac{1}{2}$	4.27 $\frac{1}{2}$	4.27 $\frac{1}{2}$
July.....	4.40	4.40	4.37 $\frac{1}{2}$	4.37 $\frac{1}{2}$
RIBS—				
May.....	4.87 $\frac{1}{2}$	4.07 $\frac{1}{2}$	4.80	4.80
July.....	4.90	4.90	4.80	4.82 $\frac{1}{2}$

MONDAY, MARCH 22.

PORK—				
May.....	8.80	8.85	8.67 $\frac{1}{2}$	8.72 $\frac{1}{2}$
July.....	8.90	8.95	8.80	8.85
LARD—				
May.....	4.25	4.20	4.20	4.20
July.....	4.37 $\frac{1}{2}$	4.37 $\frac{1}{2}$	4.30	4.30
RIBS—				
May.....	4.80	4.80	4.70	4.70
July.....	4.80	4.80	4.72 $\frac{1}{2}$	4.72 $\frac{1}{2}$

TUESDAY, MARCH 23.

PORK—				
May.....	8.62 $\frac{1}{2}$	8.77 $\frac{1}{2}$	8.62 $\frac{1}{2}$	8.75
July.....	8.75	8.87 $\frac{1}{2}$	8.75	8.80
LARD—				
May.....	4.15	4.22 $\frac{1}{2}$	4.12 $\frac{1}{2}$	4.22 $\frac{1}{2}$
July.....	4.25	4.27 $\frac{1}{2}$	4.22 $\frac{1}{2}$	4.32 $\frac{1}{2}$
RIBS—				
May.....	4.67 $\frac{1}{2}$	4.72 $\frac{1}{2}$	4.65	4.65
July.....	4.70	4.72 $\frac{1}{2}$	4.67 $\frac{1}{2}$	4.70

WEDNESDAY, MARCH 24.

PORK—				
May.....	8.70	8.80	8.65	8.77 $\frac{1}{2}$
July.....	8.82 $\frac{1}{2}$	8.90	8.75	8.87 $\frac{1}{2}$
LARD—				
May.....	4.20	4.25	4.20	4.25
July.....	4.32 $\frac{1}{2}$	4.35	4.30	4.35
RIBS—				
May.....	4.65	4.67 $\frac{1}{2}$	4.60	4.67 $\frac{1}{2}$
July.....	4.70	4.72 $\frac{1}{2}$	4.62 $\frac{1}{2}$	4.72 $\frac{1}{2}$

TIPS ON THE MARKET.

Mr. N. J. Weil, of W. E. Webbe & Co., says of provisions: The demand for past two days slackened up some on meats on account of dull and lower markets in the pit. The market to-day turned from a weak, heavy market to a strong one, and it should bring orders for product, as buyers are holding off to see how far the decline would go. He advises buying product on all such soft spots, as it will show a good profit later. Demand for heavy sweet pickled hams still continues good and prices hold firm. Dry salt bellies in brisk demand, and prices advanced $\frac{1}{2}$ c. on heavy averages; 18-20 are held $\frac{1}{2}$ c. over May ribs to-day. Sweet pickled picnics very scarce. Very few green meats being offered. Green hams, 16, 8 $\frac{1}{4}$ c.; 14, 8 $\frac{1}{2}$ %@8 $\frac{1}{4}$ c.; 12 average, 8 $\frac{1}{2}$ %@9c.

There is no doubt that the packers are believers in provisions; they own their stocks, and will protect their interests on any breaks. The English concerns, the Continental and International Packing Companies, are especially bullish on lard, owing to the poor quality of the hogs now coming to market. Armour & Co. are large owners of ribs, and will probably pay for them May 1 and job them out to their trade. From present indications we favor the long side on breaks.—Sterling & Hunt.

We have had a good advance in provisions and the reaction from top prices has been only moderate. The hog market has not declined correspondingly with the price of product, and the difference between the two is wider than ever to-day. Certain packers have supported the markets on weak spots. All have been sellers on the strong spots. We would advise taking profits for the present.—J. C. Wood & Co.

Provisions have been holding the attention of all classes of traders for some time. Lard, especially, on account of the large stocks, has caused a good deal of selling on the short

side with the present price of hogs, and the prospects of receipts not becoming large in the next six months, look confidently toward a material upturn. I think next October, from present indications, that short ribs will seem cheap at 6c. per lb. Notwithstanding the large stocks of lard, it is going into consumption rapidly, and when the short sellers conclude to cover they will find very little lard for sale.—J. G. Beazley.

TABLE OF CONTENTS.

EDITORIAL:

Thanks.....	9
Meat Inspection in Minnesota.....	9
The Consumption of Mutton.....	9

WEEKLY REVIEWS:

Provisions and Lard.....	10
Tallow and Oleo Stearine.....	12
Hides and Skins.....	16
Cottonseed Oil.....	18
Rotterdam Oleo Report.....	46
Kansas City Letter.....	14
Chicago Provision Market.....	22
Tips on the Market.....	22

TECHNICAL:

Steer and Heifer Beef.....	24
Analysis of Fatty Oils.....	24
The Attitude of France Toward American Products, With Special Reference to Lard, Cottolene, etc.....	26
Answers to Correspondents.....	28
Soap Making, No. 36.....	28

DEPARTMENTS:

Packing House Notes.....	30
Ice and Refrigeration.....	34
Tallow, Soap, Glue, Fertilizer and Cotton Oil Trade Notes.....	30
Plate Privilege.....	36
As Regards Meat Inspection.....	36
Pork Packing.....	20
The Superiority of Butterine Over Butter.....	18
Markets.....	44, 46

Index to Advertisements, Page 7.

**W. THOS. NASH,
BROKER.
Provisions, Lard, Grease, Etc.
240 LA SALLE ST.,
CHICAGO.**

**WM. E. WEBBE & CO.
PROVISION BROKERS
807 ROYAL INSURANCE BUILDING,
CHICAGO.**

M. J. WEIL, Manager Cash Provision Department.

**MULLER RUST PAINT
FOR ROOFS,
STRUCTURES, SMOKE-
STACKS AND ALL EXPOSED
IRON WORK. SAMPLE FREE.
OTTO GOETZE, SOLE AGENT,
114 BROAD STREET, NEW YORK.**



**THE CAPITAL CITY DAIRY CO. COLUMBUS,
OHIO.**
CHURNERS Fancy Quality Butterine.

SMALL ICE AND REFRIGERATING MACHINES

AT MODERATE PRICES.

The Simplest, Strongest, Most Efficient, Requires Less Attention.

THIS STYLE $\frac{1}{2}$ to $2\frac{1}{2}$ Tons Refrigerating. OTHER STYLES 3 to 25 Tons.



Stilwell-Bierce & Smith-Vaile Co.,
DAYTON, OHIO.

**HAVE YOU GOT IT YET ?
SEE COUPON PAGE 26.**

WALTER A. BANTA,

(SUCCESSION TO GEO. A. BANTA REFRIGERATOR CO.)

BUILDER OF **REFRIGERATORS AND FREEZERS** FOR ALL PURPOSES.

SMALL FREEZERS
FOR POULTRY AND GAME
A SPECIALTY.

ESTIMATES AND PLANS FURNISHED FOR THE INSULATION OF PACKING HOUSES, MARKETS AND COLD STORAGE ROOMS.

PORTABLE REFRIGERATORS FOR BUTCHERS AND HOTELS.

... REFER TO ...
RICHARD WEBBER, - - - - - 120th St. & Third Avenue, New York.
S. OPPENHEIMER & CO., - - - - - 84 Pearl Street, New York.
HALSTEAD & CO., - - - - - 200 Forsyth Street, New York.
MERCHANTS REFRIGERATING CO., - - - - - 161 Chambers Street, New York.
INTERNATIONAL PROVISION CO., - - - - - Degraw Street, Brooklyn.
DILLON & DOUGLASS, New Haven, Conn., and many others.

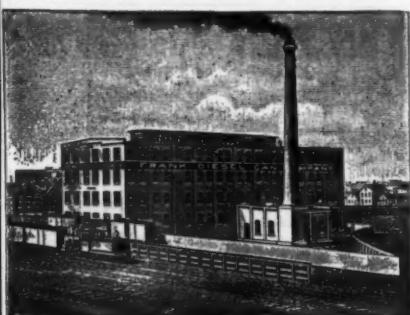
BUTCHERS AND GROCERS

When you are in the market for a new Refrigerator or Market Fixtures write to THE SIEBERT REFRIGERATOR WORKS for cuts and prices, the best for the least money in the market.

Builders of Wholesale and Retail Chill Rooms and Supplies.

Office, Warerooms and Factory: **18TH AND FEDERAL STREETS, CAMDEN N. J.**

FRANK DIESEL CAN CO.



MANUFACTURERS OF

**Lard Pails and Meat Cans,
PLAIN AND DECORATED.**

*Tin Cans and Sheet Metal Work of
all kinds.*

STEWART AVENUE,
Bet. 39th and 40th Streets

CHICAGO, ILL.

**LARD AND OIL
SHIPPING PACKAGES.**

AIRTIGHT.
No Summer Cover Needed.



CORRESPOND WITH US.
RECORD MANUFACTURING CO.
Conneaut, Ohio.

TECHNICAL.

THE PACKING HOUSE.

FOURTH SERIES.

Included in the series of articles on *The Packing House*, the following subjects have been exhaustively treated on the dates indicated:

- Dec. 26, 1896.—"The Manufacture of Sausage Casings and Packing Same."
- Jan. 2, 1897.—"The Manufacture of Sausage Casings and Packing Same," No. 2.
- " 9, 1897.—"The Manufacture of Sausage Casings and Packing Same," No. 3.
—"About Beef Extract."
- " 16, 1897.—"On Cutting Meats (Pork),"
- " 23, 1897.—"The Necessity of Cleanliness in the Handling of Perishable Products."
—"American Swine."
- " 30, 1897.—"American Swine," No. 2.
- Feb. 6, 1897.—"The Preparation of Blood Albumen."
—"American Swine," No. 3.
- " 13, 1897.—"Proper Ventilation in Packing Houses," No. 2.
- " 20, 1897.—"Proper Ventilation in Packing Houses," No. 2.
- " 27, 1897.—"Proper Ventilation in Packing Houses," No. 3.
- March 6, 1897.—"Proper Ventilation in Packing Houses," No. 4.
- " 13, 1897.—"Proper Ventilation in Packing Houses," No. 5.
- " 20, 1897.—"Proper Ventilation in Packing Houses," No. 6.

STEER AND HEIFER BEEF.

BY HON. JAMES WILSON AND G. F. CURTISS, B. S. A.

There have been a number of requests to us to reprint the very interesting and instructive report issued some time ago by the Iowa Agricultural College Experiment Station at Ames, in that State, of which, at that time, Prof. James Wilson, now Secretary of Agriculture, was director. Mr. Wilson was assisted in the very excellent and comprehensive report by Mr. C. F. Curtiss, B. S. A., assistant director. We gladly publish it again, as follows:

The heifer is rarely as well fed as the steer, but is sold to local butchers at a low price, or sent East to be sold cheaper than the steer in the same condition. When the heifer is well fed custom consigns her to a lower class than a steer of equal breeding, while heifer beef in some countries sells higher than steer beef. The beef from spayed heifers is popularly supposed to be superior to that of the open heifers, and there is reason to believe that the spayed heifer feeds better. Little has been done along these lines in our country, and nothing so far in our State, that is more interested in beef making than any in the nation.

In order that indications resulting from experimental conditions might be had for the benefit of Iowa farmers, this station bought, in 1892, fifteen grade yearling Shorthorns, five steers and ten heifers, from A. J. Graves, of Ames; they were all from the same sire and as near alike in breeding and development as possible. We had five of the heifers spayed during the fall of that year, and the whole kept in stock condition until Jan. 4, 1893, when they were tied up and all fed the same ration during the experimental period,

that lasted until Dec. 1. The heifers were all thought to be clear of calf when bought, but when the feeding period was far advanced this was found to be a mistake that caused some regret, but that brought facts to our attention well worth recording.

The five steers weighed Sept. 12, 4,005 lb; the five spayed heifers weighed Sept. 12, 3,998 lb; the five open heifers weighed Sept. 12, 3,455 lb.

The average weights of the lots, taken Jan. 3, 4 and 5, were as follows:

The steers, 4,093 lb; the spayed heifers, 3,994 lb; the open heifers, 3,592 lb.

It will be seen that the steers gained 88 lb from Sept. 12 to Jan. 4. The spayed heifers lost 4 lb, and the open heifers gained 147 lb. The cattle were removed from a dry pasture on one farm to a dry pasture on another, which interferes with growth to a certain extent; the spayed heifers were evidently shocked by the operation and lost 4 lb weight. The object to be accomplished between Sept. 12 and Jan. 4 was to get the five heifers that were spayed over the effects of the operation, and keep the three lots under like conditions until the experiment began.

The three lots were tied up for five months until June 1. They were let out twice a week for exercise, from one to two hours on pleasant days; they were watered regularly twice a day. All feed given was weighed to them while they were tied up, and an individual account kept with each animal during this time.

As feeding progressed it became evident that several of the heifers were pregnant. We resolved to note what effect this would have. An open heifer, No. 14 of our private register, calved Feb. 21, and showed a gain for that month of only 5 lb. During the next month while recovering she only gained 30 lb. The next open heifer, No. 13, calved April 21, and at the next monthly weighing showed a loss of 95 lb. During June she only regained 35 lb of this loss, and at the end of July she was only 25 lb heavier than at the end of April, after which her gains were regular and satisfactory. Open heifer No. 1 calved June 21, and at the end of the month showed a loss of 135 lb from the weight at the end of May. She had regained 95 lb at the end of July, and at the end of August was only 30 lb heavier than at the end of May. After this time she gained satisfactorily. Open heifer No. 2 calved July 12, and showed a loss of 55 lb at the end of the month, from the weights at the end of June. At the end of August she weighed the same as at the end of June. Having a calf lost the equivalent two months' feeding in her case.

We have the strange fact to record that three of the spayed heifers had calves. The one known to our records as No. 9 calved March 15, six months after being spayed, and at the end of the month had lost 15 lb from the previous monthly weight, and at the end of April was only 15 lb heavier than at the end of February. No. 10 calved April 4, and at the end of the month weighed 15 lb less than at the beginning. At the end of May she weighed only 40 lb more than at the end of March. No. 6 calved June 6, and at the end of the month had gained 20 lb.

There is an opinion that it is profitable to breed fattening animals, but our experience does not confirm it. We had interesting results from different methods of putting the heifers dry. The first heifer that calved was milked and put dry as soon as possible; it took two weeks to do it, with occasional drawing of the teats afterward. The others were not milked at all, although in most cases the udders were full, indicating good milking qualities. They all dried up promptly, without injury of any kind.

In our next issue we shall print tables showing the amounts and kinds of feed, and gains monthly, for the three lots for the period of eleven months.

ANALYSIS OF FATTY OILS.

At a recent meeting of the Liverpool (England) Pharmaceutical Students' Association, held in that city, Mr. Cowley read a paper on the "Analysis of Fatty oils." Mr. Cowley first referred to the detection of impurities in oils by taste, smell, etc., which methods are good enough in their way, especially as a guide. He next described the composition of fats, and their principal characteristics and properties. The action of reagents upon them was then referred to, and in detail the following points were dealt with: Specific gravity should be taken at 15.5° C., or in the case of solid fats at 100° C., according to some authorities. Melting and solidifying points.—Pohl's, Hager's, Redwood's and the B. P. methods were described. In this section it was mentioned that as the melting point of the fat is uncertain, especially when there is free fatty acid, the solidifying point of the fatty acids obtained by saponification is determined. This is called the "Titer test," and depends upon the fact that when a substance is melting and allowed to cool a point is reached when the temperature rises a few fractions of a degree before it falls again.

The quantitative and qualitative chemical tests which are generally returned along with the foregoing, are the acid, saponification, ether, Helmer, Reichert-Meisel, iodine and acetyl values. Mr. Cowley described how each of these is done. Reference was also made to Maumene's test, Beccchi's, and the nitric acid test for cottonseed oil. Replying to points in the discussion, Mr. Cowley said that peanut oil can be detected in olive oil through the precipitation of arachic acid as a lead salt, which is not soluble in ether as oleates are. He considered that the best test for olive oil is undoubtedly Conroy's. In regard to a statement by Mr. Wardleworth that the B. P. test for cod liver oil is unsatisfactory, he agreed and thought it a matter worthy of investigation. He was not aware of any reliable test for peach-kernel oil, and mentioned that hydrocarbon oils are indicated in fatty oils by the lower saponification number of the oils containing them. Mr. H. Wyatt, Jr., added that he had seen a test for peach-kernel oil in an Italian paper. It is to add a saturated solution of potassium bisulphite, when the precipitate of benzoic aldehyde is formed if peach-kernel oil be present.

WHEREVER A NEW PACKING HOUSE IS STARTED

A copy of our PORK PACKERS HANDBOOK AND DIRECTORY is a necessity. For particulars, see page 50.

**H. E. STÜRCKE & CO., 284 PEARL STREET,
NEW YORK.**
NATIONAL PROVISIONER ANALYTICAL LABORATORY.

OFFICIAL CHEMISTS TO THE NEW YORK PRODUCE EXCHANGE.

Chemists and Experts for Packing House Products and Supplies, Fertilizers, Soaps, Etc.



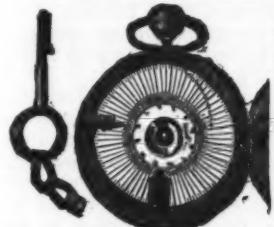
WHAT'S THE MARKET

ON . . .
HIDES
SKINS
PELTS
TALLOW
GREASE

SEND for free copy of our paper. Market Reports each week from Chicago and all leading markets. Pays to keep posted.

Hide and Leather,
154 LAKE STREET, CHICAGO.

Hahn's Latest Improved WATCHMAN'S TIME DETECTOR. WITH SAFETY LOCK ATTACHMENT.



Highest Award at Columbian Exposition. This clock is neat, thoroughly reliable and very durable. Cannot be tampered with. Price moderate. Is adapted for 6, 12 or 18 stations, having a different key for each. Registering is done by numbers from 1 to 6, 1 to 12 and 1 to 18, each station having its number. No chance for a fraudulent record here. Old style Detectors mark by holes or an impression on dial, the same for all stations. Allowance made for old Detectors. Send for circulars, prices and further particulars.

NANZ & CO., 116½ Chambers Street, New York.

LOOK HERE

Are you working in Cold Storage, Packing Houses or among Ice Making Machinery? If you are, you want to be thoroughly up in the latest practice on

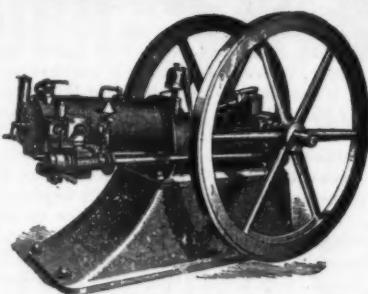
AMMONIA
REFRIGERATION

SPOON & CHAMBERLAIN, 8 Cortland St.,
Catalogues of books on Mechanics
and Engineering of all kinds.
NEW YORK.

JOSEPH LISTER,
Manufacturer of
GLUE,
DEALER IN PORK AND BEEF CRACKLINGS.
1158-1160 Elston Ave., CHICAGO

REFRIGERATION AND ELECTRIC LIGHTING.

OTTO GAS,
GASOLINE,
NATURAL GAS
ENGINES.

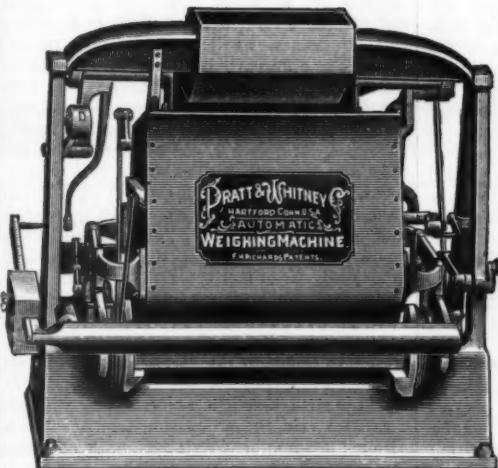


ECONOMICAL.
DURABLE.
SIMPLE.

The Otto Gas Engine Works,
33d & Walnut Sts., PHILADELPHIA.

Sizes,
2 to 200 H. P.

AUTOMATIC WEIGHING AND BAGGING MACHINE



Weighs accurate.
Counts correct.
Action positive.
Interlocking
in principle.

In connection
with our COUNTING
REGISTER, the record
of this machine is
reliable.

The modern fertilizer, phosphate, cement, feed-stuff, etc., plant not complete without a modern WEIGHING and BAGGING MACHINE; and the most modern one is the greatest money saver.

FULL PARTICULARS FURNISHED BY

The Pratt & Whitney Company,
HARTFORD, CONN.

Address:
Weighing Machine Dept.

NEW YORK,
BOSTON,
CHICAGO.

WANT AND FOR SALE ADS can be found on PAGE 5.

TECHNICAL.

THE ATTITUDE OF FRANCE TOWARD AMERICAN PRODUCTS WITH SPECIAL REFERENCE TO LARD, COTOLENE, ETC.

Our representative in Paris has forwarded us a copy of a late issue of the official journal, which is conducted on the same lines as our Congressional Record, in which the verbatim reports of discussions are produced. The details are of peculiar significance to the trades here, and we therefore take pleasure in devoting space for the reproduction of the same in its translated form. To combat this and other obnoxious measures to American interests, not only in France, but in other European countries, is one of the purposes of the journey of our Mr. Robert Ganz, mentioned in the editorial columns.

QUESTION ADDRESSED TO THE PRESIDENT OF THE MINISTERS OF AGRICULTURE.

The president, M. Henri Lavertujon, has the floor to address the president of the Cabinet upon the question of the stagnation in the pork trade.

M. Henri Lavertujon—Gentlemen, since the discussion of the agricultural budget on Dec. 10 last, our honorable colleague, Mr. Lemire, has called the attention of the Minister of Agriculture to the stagnation in the pork trade and to the remedies to apply for same. The Hon. Mr. Meline, in regretting the deplorable situation from which the small culture suffered, established on the hands of the custom house tables, in principle, the fact that the crisis was not derived, as one seemed to believe, from the increased foreign imports, which, in fact, appeared rather to diminish than to increase (this is exactly correct), but from the transient over-production which had as a result the over-flooding of the markets, and principally the over-flooding of the market at La Villette, and Mr. Meline added to this:

You understand that when there is a crisis of any kind at La Villette, there is one in all points of France. A sort of panic is created which puts down all the prices to reasonable limits, and I make this remark to calm our colleagues a little, so that they may know that these prices are exceptional and do not correspond with the increase of production. At least, the abatement of the crisis which the president has hoped would soon appear, has not come. Two and a half months have passed since this discussion, and the crisis is more acute than ever. From all parts of France we hear raised against us the cry of distress from our small farmers, whose hearts break to see their hogs sell cheaper today than they have ever sold. In fact, in my Department of Haute-Vienne, where the normal price is 50 centimes, the price actually fluctuates between 20 and 30 centimes. It is similar in a number of departments, and especially in those of Central France.

M. Laroche-Joubert—The La Charente is likewise doomed, as the Department of the Middle.

The Count Lanjuinais—The situation is just as bad in the East.

M. Emile Chevallier—The crisis is general.

M. Henri Lavertujon—Yes, I believe that the crisis is general, and that each representative of each of the departments should make the speech here which I make, and the curious fact, in spite of this lowering of meat and food on the hoof, the price of pork has not diminished, especially in Paris.

M. Antoine Babaud-Lacroze—This is on account of the importations from America.

M. Henri Lavertujon—I will get there, my dear colleagues.

He continues: As long as we could have believed that this was only a crisis which would pass by, we could have contented ourselves; but, to-day, instead of abating, it aggravates, and it is our duty to get nearer to the question of looking forth and finding a remedy which will be adapted to the situation, which has become intolerable (very good, very good). You speak of over-production. As far as I am concerned, I cannot accept this explanation. There can be no over-production of an agricultural product when the home consumption absorbs the total of the home production (very good, very good). Why, as I will show you presently, we are actually tributary to the foreigners for 40,000,000 francs yearly for pork products, fresh meats, salt meats, meat products, and lards and greases. Give us, therefore, those 40,000,000 francs; give them to the small farmers, and then you can speak of over-production (very good, very good). I collected from the custom house, statistics of the first three years, 1894, 1895 and 1896, the total of our importations, and, in fact, our exportations, for the six articles which I will enumerate. I will relieve you of the details, and I take only the totals, because I want to go quick. In 1894 those importations amounted to 38,746,000; in 1893, 46,361,000; in 1896, 35,345,000, which makes a total of 122,000,000 francs, while our exportations amounted respectively for the three years to 10,590,000, 5,960,000 and 8,846,000, or a total of 25,000,000 francs; 25,000,000 francs, against 122,000,000 francs. This is a difference in favor of imports of nearly 100,000,000 francs in three years; thus, gentlemen, we buy on an average about 40,000,000 francs per year of live pork, salt pork, sausages, lard, etc., hence our small farmers only ask that we furnish them this supplement, which is needed on account of our consumption (very good, very good, in the center and on the right). Will you tell this brave small farmer, who saves the whole year so laboriously in order to make two ends meet: Hold on, you produce too much; restrain your production. He will answer you, with reason, give me first those 40,000,000 francs which you give to the foreigners; assure me at least the custom of our country, and then I will see whether it is necessary, or whether I can restrain the production (applause from all on the same benches); yet gentlemen, this truth which our farmer reclaims is refused to him, even by those who administer the public offices. I see an advertisement of the supplies which is to be made by the insane asylum at Lesvellec, at the Morbihan. I here read this: American lard, first quality, Wilcox brand, 1,800 kilograms. No other lard but American is admitted (exclamation).

On the 5th of December last there took place at the prison of Clair Vaux an award of 4,000 kilograms of lard; always Wilcox's brand. The other marks were excluded.

Even for the 143d Regiment at Albi, the

ledger indicated greases and fats from the house of Fairbank, as described, and naturally this brand has been adopted. Finally, a French house, which I have not named, because I do not want to give free advertising to the party, wrote to the Military Superintendent at Chalons the following letter on July 16 last, in the middle of the agricultural crisis:

"Dear Sir—The special journals announce two proposals of cooking fats and lards. The first for the camp at Chalons, and the second for the camp at Verdun. In view of the abundance of French lards and fats which encumber our markets, and for which it is very hard to find an outlet, I permit myself, Mr. Superintendent, to ask you to oblige me by specifying that these awards shall be made in French lard, and with the exclusion of any American brands, which up to now have always been the object of these supplies, since our products are much superior. The military administration could only gain by reserving a proper place, and seriously for French products exclusively."

The Superintendent replied to this: "Well, I have the honor to make known to the house of X that it is not in my power to modify the conditions under which fats and lards are to be admitted. The Minister (Secretary) of War alone can bring about modifications on the ledgers and books which are under his revision."

Well, I ask the Minister of War, or the Minister of the Interior, or the Minister of the Navy, and all the members of the Cabinet to give instructions to the chiefs of their departments to forbid in the future to accept in their books of awards food products which do not emanate from French concerns (applause in the center and on the right). The question is easy to regulate. A simple circular from Gen. Billot to his superintendent, and from Mr. Barthou to the directors of his establishments which apply to the Ministry of the Interior would suffice, if it read as follows:

In the future it will be absolutely forbidden to accept any public awards or proposals for food supplies of foreign origin. Just to the point. This would be well (very good, very good). I honestly believe that this measure, if it were adopted, as I believe it will be, would bring a quick improvement of the actual situation. If this is not sufficient, ways must be found to employ means more energetic, and we must consider whether we cannot revoke the custom laws of 1891, since it is conceded that they do not permit our small farmers to reach the maximum of possible production (very good, very good). A draft of a bill to this effect has been deposited with our honorable colleague, Mr. Jonnart. We do not need to discuss it to-day, and I know that it presents difficulties of different orders, but I demand from the Committee on Public Duties and Customs that they accelerate the examination of said bill, so that they may report in the near future. I demand, likewise, that

CUT OUT.

\$10. Order for Copies of Directory and Handbook.

Send C. O. D. by Express _____ Copy of your "Pork Packers' Handbook and Directory" (440 pages), at the price of TEN DOLLARS (\$10.00) per copy. Name _____

The National Provisioner Pub'g Co.

284 & 286 Pearl St., Address {
NEW YORK.

CUT OUT.

A. W. WALBURN,
President.

M. SWENSON,
Manager.

WALBURN-SWENSON Co.

944 MONADNOCK BLOCK,
CHICAGO, ILL.

How to Utilize Tankwater Economically!

How to Concentrate Glue Liquors

WITHOUT DARKENING OR WEAKENING!

EASTERN AGENT
H. E. STURCKE,
284 Pearl Street,
New York.

How to Make Good Beef Extract!

The Swenson Evaporator Does It.

KLEY ENGINEERING CO.

231 West 42d Street, New York City.

PACKING HOUSE
MACHINERY
OF ALL KINDS..

EASTERN REPRESENTATIVE OF

V. D. ANDERSON CO., for Odorless Fertilizer Dryers.
STEDMAN FOUNDRY AND MACHINE WORKS for
Bone Crushers and Disintegrators.
WEIR & CRAIG MFG. CO., Packing-House Machinery.

Complete Outfits for Pork and Beef-Packing Houses, Oleo-Oil
and Butterine Factories, Lard Refineries, Fertilizer
Works, Meat Canning and Beef Extract Factories.

REFRIGERATING PLANTS INSTALLED.

WHITE LAW BROTHERS,
ST. LOUIS, MO.

Sal Soda, Caustic Soda, Nitrate Soda, Silicate
Soda, Soda Ash, and Chloride Calcium.

FULLERS EARTH,
SALTPETRE,

Borax, Boracic Acid, and Barytes, Barrel
Paints and Bismarck Brown, Caulking
Pitch and Cotton.

Correspondence Solicited.

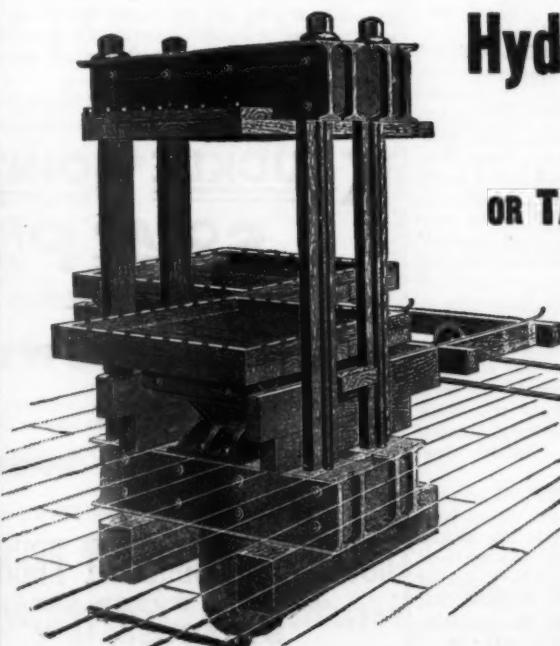
OIL CAKE AND MEAL.

MESSRS.
JOHAN KOOPMANS & CO.

AMERICAN IMPORTERS,
AMSTERDAM, HOLLAND,

ARE DESIROUS OF CORRESPONDING WITH
CRUSHERS OF SEED TO REPRESENT
THEM FOR

CAKE AND MEAL.



**Hydraulic
Fertilizer
OR TANKAGE PRESS**
ALL SIZES.

THE Hydraulic Press
Manufacturing Co.

MT. GILEAD, OHIO.

• • • •
EASTERN OFFICE:
6 HARRISON ST., NEW YORK.

WESTERN OFFICE:
11 W. RANDOLPH ST., CHICAGO.

March 27, 1897.

TECHNICAL.

the president of the Cabinet shall do all in his power to hurry this matter, so that the report may be discussed in open session. Time is pressing. The people of the country impatiently demand a solution (very good, very good).

M. Descubes—We should reduce also the tariffs on freight.

M. Henri Lavertujon—I also want to attract the attention of the Minister of Agriculture to the impossibility in which our farmers are placed to protect themselves against hog cholera. Discussion on this subject continues.

NEXT SESSION—DISCUSSION ABOUT SAME INTERPELLATION AS ABOVE.

The president gives the floor to M. Desfarges, to develop his interpellation on the stagnation of the pork trade.

M. Desfarges—Gentlemen, the observations presented from this tribune in the form of a question to the Secretary of Agriculture, by our honorable colleague, M. Lavertujon, are not sufficient, in the sense that they cannot receive any sanction from the Chamber. He continues on the question of parliamentary law, in which he is several times interrupted.

M. Desfarges, continuing on the subject—I have not, as you can believe, an intention to deliver a philosophical dissertation; the stagnation in the pork trade does not touch either, from far nor from near, the question of a political order. It is very essentially an economical question.

ANSWERS TO CORRESPONDENTS.

We gladly and as promptly as possible answer all reasonable questions in this column sent to us by our subscribers or advertisers.

Answers desired by mail should be accompanied by a stamped, addressed envelope.

Persons desiring not to be known as making an inquiry should add a nom de plume to their questions. By so doing they will avoid identification in this column. The correct name and address should, however, for the publisher's satisfaction, accompany each request for information.

G. W. S., PHILADELPHIA.—Clear bellies, English, are cleared of all bone, belly trimmed and no seed left in at all. Cut square at both ends, and may average from 12 to 20 lb, a 14 average finding the readiest sale. Must be cut from smooth, solid hogs.

J. McN., SAN FRANCISCO.—Skinned hams are made the same as short cut hams, except that the skin and fat are all removed—that is, fat nearly all removed and skin left on shank only. These hams are taken from large, rough hogs, and will weigh from 18 to 30 lb. (2) A reply to your second query would take up considerable space in this column, more than we can spare. It would be wise for you to secure a copy of our Pork Packers' Hand Book and Directory, in which you will find all the information you request, and considerable more of interest and value to you in your business.

RIBS, SCHENECTADY.—Short ribs averaging 50 lb would yield short clear of 48 lb, and also 73 per cent. extra clear, 26 per cent. loin, balance trimmings and spare rib. Back and belly 24 and 21 lb respectively, balance rib and trimmings. Spare ribs will run close to 2 lb average.

E. B. S., BALTIMORE.—Refined or compound lard is composed of prime steam lard, cotton oil and stearine, used in the proper proportions, and blended while in a state of fusion and constantly agitated in tanks by means of mechanical paddles therein. No, there is no deception about it, as some imagine, for it is sold for what it really is.

R. S. MUNSON, WHITESTONE, L. I.—Insert a tryer into the fresh meat up to the bone and place a small thermometer in, when it will register the temperature of the piece after a few minutes' duration.

OIL MILL.—Crude cottonseed oil to pass as prime, according to Rule 11 of the New York Produce Exchange, must be made from decorticated seed, must be sweet in flavor and odor, free from water and settling, and must produce prime summer yellow grade by the usual refining methods, with a normal loss in weight, and shall test not exceeding 1 per cent. free fatty acid.

SOAP MAKING.

No. 36.

(Continued from last week.)

BOILING ON STRENGTH OR CLEAR BOILING.—The soap from the salting-out operation is now run into the pan, and then a small quantity of caustic lye at 20° Twaddel run in and the soap boiled on this for three or four hours. During this boil the soap should remain open and a clear lye always visible; if it should not thus present itself, then a little stronger lye should be added. Some soap makers give a preliminary boil with a little water, and thereby close up the soap before they add the caustic to open it again. There can be no doubt that this is the more preferable course. The object of this boil on strength is to complete the saponification and to insure that the soap is quite free from any unsaponified fat. For this purpose it is not advisable to use any stronger lye than is absolutely necessary for the purpose of just opening the soap; any excess is harmful rather than otherwise, as it tends to retard rather than assist their reaction, while the soap exhibits a tendency to be rather caustic. Some attention should be paid to this boil, as it has a material influence on the grain and quality of the finished soap.

After boiling for three to five hours, according to the size of the batch of soap being made, the steam is shut off and the pan of soap covered up and left to settle. This takes from thirty-six hours to three days, according to the amount of soap in the pan. At the end of this time the contents of the pan will have divided into two portions; one of soap at the top, the other of lye—"half-spent lye," it is called. This still contains some caustic soda, although possibly it may have a dark color, especially if poor fats have been used in making the soap; it should be stored in a separate tank, and used in the first boil of a new batch of soap.

The soap is taken away from the lye by any

convenient means and placed in the frames to cool and set. This will take from three days to a week, according to the season of the year and the relative coolness of the frame-room.

The soap as so made is known as curd soap, and it may be made from a number of fats; but what is sold as curd soap is generally made from tallow.

Curd soap, while it possesses excellent detergent properties, is apt to be rather alkaline and sharp, and, therefore, does not suit everybody as a toilet soap.

FITTED SOAPS.—In the manufacture of the most common kinds of domestic soaps the soap, after undergoing the process of boiling on strength and salting out, undergoes a further treatment, the extent of which may be varied according to special requirements and the ideas of the soap maker. The first treatment consists in giving what is known as a cleansing boil; this is done by running the soap into a pan and adding some water and sending steam through; there is then run in a strong brine liquor in just sufficient amount to open the soap, and the boiling is continued with either close or open steam for three or four hours, or even longer, according to the size of the batch of soap, after which the pan is allowed to settle for about twelve hours, when the soap will be found on the top and the brine below, this being run off when the soap is ready for the finishing operation. The cleansing boil helps in the completion of the saponification and, therefore, to the production of a more perfect soap, while it tends to wash out any excess of alkali that the curd soap may

Welch, Holme & Clark Co.

383 WEST STREET,

NEW YORK.

HEADQUARTERS FOR

SOAP MATERIALS, CAUSTIC SODA, SAL SODA, BORAX, COCOANUT OIL, PALM OIL, OLIVE OIL FOOTS, COTTON, SEED OIL, ETC.

Correspondence Solicited.

KNUCKLE JOINT SCRAP PRESS.
THREE SIZES
BY
HAND OR POWER.

Doors swing open to remove crackling. Follower swings back to uncover hoop when putting in scrap.

ALSO FERTILIZER PRESSES.

SEND FOR CATALOGUE.

BOOMER & BOSCHERT PRESS CO.,
362 WEST WATER STREET,
SYRACUSE, N. Y.



March 27, 1897.

TECHNICAL.

hold from the "boiling on strength," and so makes a more neutral soap. Some soap makers give, with their best qualities, even a second cleansing boil. The brine liquor may be used several times, according to the quality of the soap which is being made. If from good clean fats, the liquor may be used several times; if from poor dirty fats it cannot be used more than once or twice, as it becomes too highly charged with dirt to work satisfactorily.

The next proceeding is to close up the soap again; this is done by placing the soap in the pan, sprinkling on to it a little water, and heating by the close steam coil. Soon the soap loses its granular appearance and becomes more transparent and homogeneous; when this happens this boiling is discontinued and the pan allowed to cool, or the soap may be run into the frames to set, after which it is cut up into slabs and bars and tablets, ready for sale to the public.

Such is a general description of the ordinary process of soap boiling. It is subject to a little modification here and there, according to the fancy of the soap maker and the kind of soap being made and the fats used.

(To be Continued.)

A NEW USE FOR STEARINE.

A surface composed of stearin, paraffin and ozokerite has been patented by Villard, of Paris, and is intended to replace ice for skating, the elements of its composition varying according to the season. It is either poured in a molten condition upon a solid foundation or is molded into blocks and laid down as desired. It can also be "run off" on a surface of water, where it will solidify and float.

EXPORTS FOR THE WEEK.

The value of exports for the week ending March 23 (exclusive of specie) was \$8,107,256. For the corresponding week last year, \$6,304,832. The exports include 8,814 gallons lard oil, 355,914 gallons cottonseed oil, 3,484 barrels pork, 1,955 barrels beef, 414 tcs. beef, 8,136,723 lb. cut meats, 211,425 lb butter, 303,330 lb cheese, 5,584,440 lb lard, 908,258 lb tallow.

ESTABLISHED 1875

L. KRAUSKOPF,
DEALER AND EXPORTER IN
TALLOW, GREASES AND SOAP
MAKERS' MATERIALS,
430 North Third Street, and 425 Dilwyn Street,
PHILADELPHIA.



WILL PRESERVE COILS, BRINE PIPES, VATS,
AND ALSO ALL IRON AND WOOD WORK FROM
DAMPNESS, RUST OR THE ACTION OF ACIDS
AND ALKALIES AND FROM MOISTURE. . . .
PENETRATING AND DURABLE.

TALLOW, SOAP, GLUE, FERTILIZER AND COTTON OIL TRADE NOTES.

CORRESPONDENTS, SUBSCRIBERS AND OTHERS
SENDING ITEMS FOR THIS COLUMN SHOULD
MAIL THEM SO AS TO REACH THE
EDITOR NOT LATER THAN THURSDAY EVENING.

Tallow-renderers, soap makers, glue manufacturers, fertilizer manufacturers, and cotton oil manufacturers would do well to make known their wants in this column, which would result in their being placed in immediate correspondence with the leading firms interested in these lines who carefully peruse these notes.

Athens, Ga., is to have one of the largest cottonseed oil mills in that State. The capital to be invested in the new enterprise will be \$50,000, it is reported, and the machinery for the mill will be of the very latest make, and will be perfect in every respect. The new mill will have a crushing capacity of fifty to sixty tons of cottonseed daily. Plans and specifications for the new mill have been drawn and work will be started in the early summer. The Hodgson Cotton Co. is behind this new enterprise.

The E. G. Harris Soap Co. has bought the plant of the Kepford Soap Co., at Newburg, Pa., and has begun manufacturing.

Charles Cameron, of Atlanta, Ga., has completed arrangements for a soap factory in Jacksonville, and started his machine to work in the manufacture of a good quality of soap last Monday morning. At the beginning Mr. Cameron will not employ more than eight or ten hands, but will increase his force as the business becomes greater. He has secured the patronage of many Jacksonville merchants, and will begin filling orders as soon as the soap is made. He will reside in Jacksonville permanently. The building secured for a factory is on Moncrief Spring road, owned by A. Campbell. Mr. Cameron desired to locate nearer the business portion of the city, but was prohibited by the city ordinances.

Messrs. H. Wm. Dopp & Son, of Buffalo, have closed a flattering contract with Mr. Uruchurtu, manager for C. Echeverria & Co., to furnish the machinery for a soap manufacturing plant to be conducted by the firm named in the city of Hermosillo, Mexico. It will be remembered that a recent issue of this paper contained an item relative to Don Uruchurtu's departure from Sonora for the United States, his mission being to purchase soap machinery. The Messrs. Dopp & Son are now engaged in filling that order, which they expect to have completed by the end of the month. Other orders of this firm include the shipment of kettles for Mulheus & Kropff for their soap factories in Germany, and a power remelting crotcher for Prince, Torres & Prince, of Yomez Palacio, Mexico. The firm is also figuring on other contracts.

H. W. Knight & Sons, proprietors of the Moulison Soap Works, Rochester, N. Y., have sold out to Thomas Dransfield.

PACKING HOUSE NOTES.

Manufacturers of machinery and fixtures interested in these notes, should also consult the items under Ice and Refrigeration, and other trade news columns in this paper.

Employers in want of help, and employees in search of positions, and such wanting to dispose of machinery or desiring to purchase same should look at our WANT AND FOR SALE COLUMN on page 46.

Persons contemplating the erection of packing houses or in need of packing house machinery will do well to make their wants known in this column. The foremost firms in the lines mentioned closely pursue the notes on this page, and prospective purchasers of machinery would be placed in immediate communication with them.

* Tacoma, Wash., March 24.—The first beefsteak that ever reached Circle City, Alaska, sold for \$48 a pound a few weeks ago. The steak consisted of a ten pound piece of beef that was slaughtered at Forty-Mile Creek, and was packed at that place and shipped 250 miles to Circle City by Thomas O'Brien. When O'Brien reached the camp the miners turned out in a body to see the steak. It was placed on exhibition, and it attracted as much attention as an eight-legged calf. Everybody wanted a piece of the fresh meat, and the prices offered were such as would have resulted in a mining camp quarrel or bloodshed if it had not been decided to raffle the steak off for the benefit of a hospital.

* Carson City, Nev., March 23.—A deed has been filed with the Elko County Recorder, recently executed in London by the Great Britain and Ireland Land and Cattle Company to Mr. Barr and others of Pittsburg, Pa., of certain lands located in Clover Valley in Elko County. It conveys to the Nevada Land and Cattle Company about 15,000 acres of land.

* There is no truth in the report that the Louisville (Ky.) Packing Co. would make a permanent reduction in its plant and force of employés. The company is now engaged in increasing the capacity of its ice plant, and the capacity will be seventy-five tons per day. The water from which the ice is frozen is boiled in an immense tank and goes through two filtering processes.

* Work will soon begin on the new building of the Omaha Beef Co. in Danbury, Conn.

* Mr. S. B. Morse, superintendent of the beef department of the Armour Packing Co., of Kansas City, is absent on a tour in which he is visiting ice plants and storage warehouses, gaining new ideas, knowledge of improvements, etc., and will stop at Cincinnati, Indianapolis, Chicago and New York before his return. He has visited, among others, Mr. Fred Haines, of the St. Louis Ice Manufacturing and Cold Storage Co., who was for-

P & B

PAINT

Chicago Office, 189 Fifth Avenue.
PHILADELPHIA, Standard Supply and Equipment Co., 22 South 15th St.
BOSTON, J. A. & W. Bird & Co., 117-119 Milk Street.
PITTSBURGH, J. B. Booth & Co., Standard Building.

THE STANDARD PAINT CO.,
81-83 JOHN STREET, NEW YORK.

**EASTMANS COMPANY
OF NEW YORK.
CITY DRESSED BEEF.**

Salesroom and Abattoir:
59th STREET, 11th AND 12th AVENUES,

NEW YORK.

Telephone Call, 896-38th St.
Main Office Telephone Call, 641-38th St.

TELEPHONE NO. 87-38TH STREET.

JOSEPH STERN & SON
(Successors to STERN & METZGER).
WHOLESALE BUTCHERS

ABATTOIRS, 616, 618 & 620 W. 40th St.
SALESROOMS, 617, 619 & 621 W. 39th St., N. Y.

BEST QUALITY OF CITY DRESSED REFRIGERATED
BEEF ALWAYS ON HAND.

KINGAN & CO., Ltd.,
Pork and Beef
Packers,
INDIANAPOLIS, - - IND.

BRANCHES:
RICHMOND, VA.
NEW YORK, Manhattan Market.
PHILADELPHIA, PA., Vine Street.
BALTIMORE, MD., South Street.
MEMPHIS, TENN.
SAN FRANCISCO, CAL.
SYRACUSE, N. Y.

**KAUFMAN & STRAUSS,
WHOLESALE BUTCHERS**
Slaughter House, 622 & 624 W. 40th Street.
Salesroom, 623 & 625 W. 39th Street.
Office, 623 West 39th St., NEW YORK.
TELEPHONE 1430-38TH ST.

DWIGHT P. CRUIKSHANK
7 & 9 FRONT STREET,
... NEW YORK.

SCHWARZSCHILD & SULZBERGER CO.,
NEW YORK ABATTOIRS: KANSAS CITY.
Packers and Curers of Choicest Grades of
Beef, Veal, Mutton and Pork,
ALL PACKING HOUSE PRODUCTS.

MAIN OFFICES:
45th St. & First Ave.

DEPOTS: 518 West Street; Gansevoort Market; Tompkins Market, Third Ave. and 7th St.; First Avenue and 102d Street; Twelfth Avenue and 132d Street.

NEW YORK CITY.

MAIN BRANCH AND ABATTOIR:
1st Ave., 45th & 46th Sts. & East River.

BROOKLYN:

DEPOTS: Pacific and 5th Avenues; Wallabout Market.
Also Branches and Depots in all of the Principal Cities of the United States.

MANHATTAN BEEF CO., 1, 2 and 3 MANHATTAN MARKET,
West 35th Street, NEW YORK.

Consignments Solicited.

POULTRY AND COUNTRY VEAL

A SPECIALTY.

THE HAMMOND COMPANY

- CHOICE
Chicago Dressed Beef,
Veal, Mutton, Lamb,
Hogs, Provisions.

BRANCH HOUSES.

ATLANTIC BEEF CO., Ltd.,
174 and 176 Fort Greene
Place, Brooklyn, N. Y.

PACIFIC BEEF CO., 106 N.
6th St., Brooklyn, E. D.

HOBOKEN BEEF CO., Ho-
boken, N. J.

N. H. Snyder, SHIPPER AND DEALER IN
Standard Provisions
and Meat Specialties,

231 Fulton Street, NEW YORK. Telephone Call:
Tongues, Tripe and Pigs' Feet in Vinegar, 25, 50 and 100-lb. Kegs. Hotels and the Trade
solicited. Orders by Telegraph or Letter promptly attended to.

TELEPHONE 575A,
38TH STREET. J. M. & P. SCANLAN, 108 BROOKLYN.

WHOLESALE DEALERS IN
MUTTON, LAMB AND VEAL.

Main Office and Abattoir, 613 to 619 West 40th Street, New York.
Branches at: West Washington Market, New York, 160 Fort Green Place, Brooklyn.
ALSO DEALERS IN
PULLED WOOLS, PICKLED SHEEP AND LAMB PELTS.

THE HARLEM PACKING HOUSE

~
RICHARD WEBBER,

OFFICE AND REFRIGERATED SALESROOMS:

120th Street and Third Avenue,
NEW YORK.

SLAUGHTERER
OF AND DEALER IN
CATTLE, HOGS AND POULTRY.
PORK AND BEEF
PACKER.
LAND REFINER.
GROCER.
OF FINE PROVISIONS
FOR HOME AND
EXPORT TRADE.

ABATTOIRS, FOOT OF W. 39th ST., NEW YORK
ST. JOSEPH, MO. SIOUX CITY, IA.

**Drescher, First VEAL, MUTTON & LAMB,
& Co.**
(INCORPORATED.)

WHOLESALE DEALERS IN
Abattoir and Offices: 776 FIRST AVENUE,
Branch Office: 751 FIRST AVENUE,
Telephone Call, 935 38th St. NEW YORK.

**DIRECT IMPORTER
OF SPICES**

From Place of Growth.

merly with the Armour Packing Co. in Kansas City. He, with Mr. Hutchison, of the Frick Co., showed Mr. Morse the East St. Louis Plate System and Storage, Hews & Loomis' new plant and other points of interest.

* Mr. Carl Dreier, of the Wilcox Lard and Refining Co., who is now traveling in Europe, writes to us from Rotterdam that the butchers complain of a heavy advance in the price of hogs there.

* Hon. J. H. Brigham, of Ohio, whom President McKinley has appointed to be Assistant Secretary of Agriculture, is master of the National Grange, as a war veteran, and has figured considerably in Ohio politics. In addition to these qualifications, he is an old friend of the President.

* A meeting was held Tuesday last in Nashville, Tenn., of the live stock breeders of that State, the purpose of the meeting being to perfect plans for a great and detailed live stock exhibit during the Centennial Exposition.

* Meat Inspector John Lippert, of Allegheny, Pa., has inaugurated a crusade against farmers in that State and Ohio who send cattle to be killed than cannot pass inspection. The act prohibiting the sale of bob veal has been repeatedly violated, and now careful watch is being kept upon the farmers, who will be prosecuted if they repeat the offense.

* George W. Martin, of Williams, Ariz., is constructing an engine room in which to place his new engine, lately purchased, to run his sausage mill.

* Swift and Company, who recently acquired the St. Joseph Stock Yards, as noted in this paper at the time, and who propose to erect a large packing house there, have temporarily leased the pork packing house at the stock yards formerly operated by John Moran & Co. The work of placing the Moran house in condition to be operated was begun last week, and in a few days the wheels will begin to revolve.

* A delegation of Chicago merchants, headed by ex-Senator Salomon, went to the capital—Springfield—one day last week to open the campaign against the department stores. The new bill with which the ex-Senator was armed applies only to cities having more than 10,000 inhabitants. Stated briefly, its aim is to prevent merchants from dealing in more than one line of goods in the same building. To gratify merchants in cities like Springfield, Peoria and Joliet the bill permits dealers to carry similar lines of merchandise [such as groceries and meats and clothing and furnishing goods] by paying a license fee of \$25 for each line added to their original business. The bill is so framed, however, that department stores cannot continue, and contains a cast-iron classification of goods usually carried by those concerns. "This bill has been examined and pronounced constitutional," said ex-Senator Salomon.



**BIRD PAPER MFG. CO.'S
CELEBRATED COMPOUND
INSULATING PAPER**
For lining Cold Storage and Ice Houses, Refrigerators and Refrigerator Cars.
WATERPROOF, ACID PROOF, ALKALI PROOF.
AIR-TIGHT, ODORLESS, TASTELESS.

BIRD PAPER MFG. CO.
98 MAIDEN LANE, NEW YORK.

"and there is no doubt in my mind that a law will be passed this session to meet this demand." The bill passed the Senate Wednesday.

* The Davenport Packing Co., in Wilbur, Wash., has purchased the butcher business of Lyse Bros.

* A bill has been introduced in the Illinois Assembly by Mr. Carmody, prohibiting the manufacture and sale of lard containing any other ingredient than the "pure fat of healthy swine, unless the tierce or vessels containing such lard shall bear a label stating the ingredients contained in such lard."

* P. L. Flanigan has bought the Smoke Creek property of Thomas Winters, in Eureka, Nev., including all the sheep and cattle. He paid \$70,000 for the property, and is now the sheep king of Nevada.

* A Great Northern train recently made a big slaughter of beef about three miles west of the Benton (Mont.) depot. About fifty head of cattle were killed or maimed by attempting to block traffic at the point mentioned.

* The Alamo Cattle Co., of Fort Worth, Texas, has been incorporated with a capital stock of \$100,000. The directors are Chester A. Snider, Kansas City, Mo.; Munson P. Buel, Chicago; Amos T. Atwater, National Stock Yards of Illinois; A. L. Matlock and Walter M. Daly, Fort Worth.

* The Jacob Ulmer Packing Co., of Pittsburgh, Pa., Seventh and Callowhill streets, purposes putting in a beef box and storage cellar, for which the plans have already been drawn. The former will have a capacity of over two carloads, while in the basement will

be stored hams, shoulders, bacon and lard. The beef box is expected to be finished and in operation in about five weeks.

AMONG THE RETAILERS.

A. A. & I. S. Guptill, in Berwick, N. H., have dissolved partnership.

Walter S. Burnham, of Boston, is dead. He was in the provision business. He was State grand treasurer of the Knights of Honor.

The firm of Wintamuth & Kinsley, in Tunkhannock, Pa., is dissolved, the latter having purchased the former's interest.

Andy Turner has opened a meat market in Bellefontaine, Ohio.

Judge Dunfield purposes to start a general store and meat market in Columbine, Colo. Judge Dunfield is the leading merchant of Northwestern Colorado, and his coming to Columbine is hailed with joy by the natives, whose provisions have run so low that it is claimed there is nothing to be secured in the eating line, except gum boots steeped in watered whisky.

George L. Holly has purchased an interest in the Columbia Meat Market in La Junta, Colo. The full firm name is Holly & Thiets.

I. Navarra and Andrew Bodary have opened a meat market in Flat Rock, Mich.

W. E. Dunham has sold his meat market in Auburn, N. Y., to Robert Eggleston, and Joshua Fisher has sold his market to Strong & Co., of Borodino.

The firm of Coons & Abbott, butchers, will be dissolved April 1.

Thieves recently entered the butcher shop of J. C. Phelan in Williams, Ariz., and helped themselves to five choice hams, seven cans of

THE OLDEST ESTABLISHED TWINE HOUSE IN THE TRADE.

Packers, Oil Millers and Fertilizer Manufacturers,
your interests will be served by writing

D. P. WINNE,
338 BROADWAY, NEW YORK,

For prices on TWINES and CORDAGE. Lowest prices and most reliable Goods. Guaranteed special goods made for above class of trade.

ALL CURED MEATS, SAUSAGES AND BOILED MEATS

ROLL PARCHMENT PAPER

Is the attractive feature on the counters of many stores, being used by the leading butchers

ON OUR PREMISES

We have a complete printing department for printing Parchment Paper.
ESTIMATES PROMPTLY FURNISHED.

Should be wrapped in a sheet of Printed Parchment Paper. Leading packers are using our Parchment Paper for wrapping their meats extensively.

WE MANUFACTURE ALL THE PAPER WE SELL.

Paterson Parchment Paper Co.
OFFICE AND WORKS, PASSAIC, N. J.

SWIFT AND COMPANY, CHICAGO.

MANUFACTURERS HIGH GRADE

SUMMER SAUSAGE

FOR DOMESTIC AND EXPORT TRADE.

CERVELAT
SALAMI.

QUOTATIONS UPON APPLICATION.

HOLSTEINER
FARMER.

Cable Address: "ESSBEEF."

Telephone: No. 436, JERSEY.

Jersey City Packing Company,

BEEF AND PORK PACKERS. Curers and Exporters of and Dealers in Fine Provisions. Refiners of Lard.
Manufacturers of "White Star" Brand of Lard. "Eagle" Brand of Hams and Breakfast Bacon. "Peerless" Brand Sausages.

BEEF AND PORK PACKED SPECIALLY FOR ALL CLIMATES.

Salesrooms and Packing Houses: 138-154 9th St., JERSEY CITY, N.J.

NORTH PACKING AND PROVISION CO.

PACKERS AND JOBBERS OF
PROVISIONS

Highest Award, Diploma and Medal, at World's Fair, for Pure Lard, Hams, Bacon, Bbl. Pork, Neutral Lard, Sausages.

PURE LEAF LARD, 8, 5, 10-LB. PAIL TUBS, 33 & 34 N. MARKET STREET, BOSTON.
TIERCES. 444, 446 & 448 PRODUCE EXCHANGE, N.Y. CITY.

Try their North Star Brand for something extra choice. Sure to please. PACKING HOUSE, - SOMERVILLE, MASS.

FREDERICK BOHNET, GENERAL PROVISION DEALER,

ORDERS PROMPTLY ATTENDED TO.
CITY OR COUNTRY.

Established 1850.

TELEPHONE, NO. 662 FRANKLIN.

188 & 190 MONROE ST., NEW YORK.

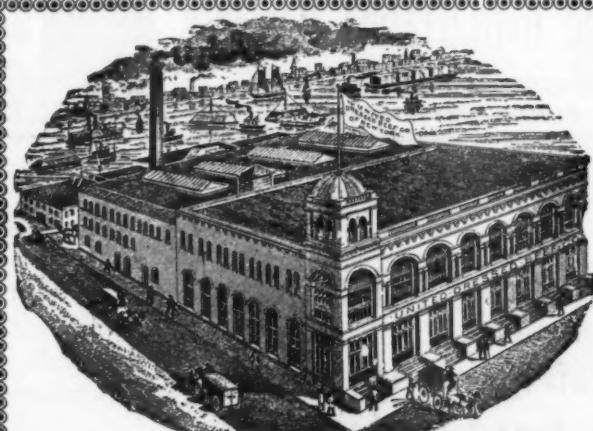
John P. Squire & Sons' HAMS AND BACON

ARE THE FINEST IN THE WORLD.

Telephone 282 Franklin. Their process of preparing and curing gives that delicate flavor and beautiful color for which they are noted, and adapts them to any climate or season of the year.
OUR KETTLE RENDERED LEAF LARD CANNOT BE EXCELLED. . . . 20 Harrison Street, New York.

HALSTEAD & CO.,
Packers and Provision Dealers.200 FORSYTH ST., NEW YORK.
Registered Cable Address "Roomfull," New York

See Coupon on Page 26.



The United Dressed Beef Company

Salesroom Telephone
314 38th St.

Office Telephone, 303 38th St.

CITY DRESSED BEEF.

PACKERS AND EXPORTERS OF INDIA MEATS AND ALL SALT BEEF

MANUFACTURERS OF

Beef Casings, Dried Blood, Fertilizers, Oleo Oils, Stearine, Prime City Tallow, Ground Bone, Horns and Cattle Switches, Selected Hides.

HIGHEST PRICES PAID FOR SHOP FAT AND KIDNEY SUET.

43d & 44th STREETS,
FIRST AVE. and EAST RIVER, NEW YORK.ISAAC BLUMENTHAL, President.
LEWIS SAMUELS, Treasurer.GEORGE STRAUSS, Vice-President.
LEWIS A. LONDON, Secretary.

WANT AND FOR SALE ADS, can be found on PAGE 45.

March 27, 1897.

fresh oysters and 12 pounds of choice butter. The gentlemen in some manner had provided themselves with a key to the front door, through which they entered, and were considerate enough to lock the door again upon taking their departure.

Michael Kaplis and Thomas H. Cross, meat dealers in Detroit, Mich., have had a falling out, and a receiver has been appointed for their business. Cross says that between \$40,000 and \$50,000 have been realized, but that he cannot get a satisfactory understanding.

The Wheeling (W. Va.) Butchers' Association has elected the following officers: President, Charles Hoffmann; vice-president, Chris Kalbitzer; treasurer, B. Gartner; secretary, William Niebur, Jr.; finance committee, Chris Kalbitzer and John Dunkle; board of directors, W. P. Meyer, George Zoekler, George Weimer, J. C. Medick, Charles Rohig, Chris Kalbitzer, John Dunkle.

A. R. Bullock is pushing the work on his new meat market block in Cambridgeboro, Pa., and hopes to have it ready for occupancy by April 1.

The meat market and provision store of J. G. Comerford, in Rochester, N. Y., was entered by burglars early last Saturday morning, and the thieves got away with \$1.50 in cash and a quantity of merchandise, including a good deal of bread and ham, which they devoured while doing their burglarious work.

William Stevens, the well-known meat merchant, died recently in Hamilton, Ohio.

The butchers and grocers of Springfield, Mass., are rejoicing in the prospect of being able to collect bills by law from that class of individuals which is inclined to be forgetful of such matters. A bill for this purpose has been put before the Legislature, and its promoters have received many assurances that it will become a law. The proposed new law will provide for the collection of debts by installments, as is done in England. After a judgment has been obtained for a debt con-

NEPONSET RED ROPE INSULATING PAPER
FOR LINING
Cold Storage Houses

SAMPLES AND FURTHER PARTICULARS
SENT FREE ON APPLICATION TO
F.W.BIRD & SON,
EAST WALPOLE, MASS.
THIS PAINT IS ACCEPTED BY EXPORTERS
AS THE STANDARD INSULATION.

WATERPROOF, AIR TIGHT, CLEAN, A HIGH NON-CONDUCTOR
AND ABSOLUTELY ODORLESS.

tracted for the necessities of life the debtor will be summoned to appear before a police court, where an examination will be made into his financial affairs. If his wages are found to be sufficient to leave something above living expenses, the judge will order a reasonable amount to be paid on the indebtedness in weekly or monthly installments. If these installments are not paid promptly the delinquent is guilty of contempt of court, and subject to imprisonment. The committee appointed by the Springfield branch of the Butchers' and Grocers' Protective Association to influence the passage of the bill consists of H. L. Niles, J. F. Callanan, W. J. McCann, T. E. King and C. A. Wright.

* A contract for a six-ton ice plant has been awarded by Pfoffinger & Co., of Louisville, Ky., who also expect to enlarge their packing plant.

Chinese butchers, says a California exchange, kill no cattle and handle no beef, but they kill hogs and sell nothing but pork to their Chinese customers. It is a well known fact that the almond-eyed Celestial is very partial to pork chops.

—An ice plant is being talked of for Los Angeles, Cal.

ICE AND REFRIGERATION.

Those interested in this subject should not forget to look also at Packers' and Slaughterers' Notes, and other trade news columns in this paper.

Employers in want of help, and employees in search of positions, and such wanting to dispose of machinery or desiring to purchase same should look at our WANT AND FOR SALE COLUMN on page 46.

Persons in need of an Ice Machine or Refrigerating Appliances should make their wants known to us. Their publication in this column which is perused by the leading ice machine manufacturers in the country would bring scores of replies.

—An ice plant is to be constructed in Mokelumne Hill, Cal.

—The ice factory in Redlands, Cal., is turning out about eighty-tons of the congealed moisture every day.

—John Strober, the Jackson (Cal.) brewer, is putting in a big ice plant.

—The addition built to the main brewery building in Vancouver, Wash., has been completed and the machinery for the ice plant has been put in. Further extensive improvements in the way of new machinery will also be made this season to double the present capacity of the brewery plant.

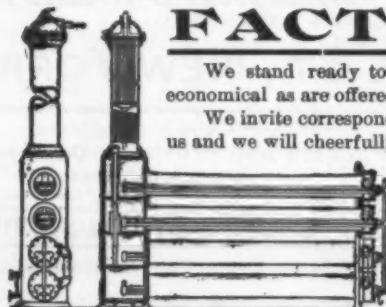
(Continued on page 38.)

FACTS.

All Ice Manufacturers know that there are inferior Ice and Refrigerating Machines built.

We stand ready to challenge any builders to show that our machines are as efficient and economical as are offered in the market.

We invite correspondence. Should any contemplative purchasers wish any information, write us and we will cheerfully give it our prompt attention and send illustrated catalogue.



GENERATOR—Pat. Jan. 24, 1888, and Sept. 23, 1890.

Write for Prices.

SULZER-VOGT MACHINE CO.
Builders of Latest Improved
Ice and Refrigerating Machines.

LOUISVILLE,
KY.

ATMOSPHERIC CONDENSERS, COILS, TANKS
FURNISHED FOR ANY MACHINES.



Absorber with Patented
Automatic Regulating
Valve. (Pat. Nov. 1, 1892.)

RESERVED FOR

CREAMERY PACKAGE MFG. CO.

MANUFACTURERS OF

Ice and Refrigerating
Machines, Lard Pails, Etc.

CHICAGO, ILL.

**THE
DE LA VERGNE REFRIGERATING MACHINE CO.**

Manufacturers of—

Refrigerating AND Ice-Making Machines
AND ANHYDROUS AMMONIA.

Read the following AWARD from the DIPLOMA received by us from THE WORLD'S COLUMBIAN EXPOSITION.

AWARD.

For production of Anhydrous Ammonia Compressors for refrigerating purposes of First-Class Efficiency, Durability, Design, Workmanship and Finish, having a pair of vertical double-acting compressing cylinders, operating from two cranks driven by a horizontal double-acting steam engine, occupying a minimum floor space for given capacity, with automatic devices for circulating oil through the compressing cylinders for the purpose of securing perfect displacement of gas, or absorbing the heat of compression so as to require no water-jackets.

For first-class design of the ammonia condensing apparatus, involving the use of a special line of pipe-fittings and valves, of superior strength and completeness; for an excellent arrangement of cooling-water distributing surfaces and liquid ammonia collecting pipes, and complete provision for conveniently operating, cleaning and repairing all parts of the system so as to secure steady action under the most economical conditions.

For successful application of the principles of artificial refrigeration, by the direct expansion of ammonia.

For a complete system of constructing Refrigerating Plants and manufacturing specially designed appliances therefor, all of which are undoubtedly the most elaborate and complete fittings for this purpose yet introduced. The exhibitors adhere to the practice of making all pipe joints with screw threads, sealed with a special solder, which is undoubtedly the most secure method of making joints in ammonia work.

Approved.—W. A. JAMES,
Vice-Pres't Departmental Com.

(Signed) J. E. DENTON,
Individual Judge.

Approved.—JOHN BOYD THACHER,
N. H. Chairman Executive
Committee on Awards.

**WE BUILD THE MOST SUBSTANTIAL AND DURABLE MACHINES AND PLANTS FOR REFRIGERATION
AND ICE-MAKING MADE IN THE WORLD. THE RECORD MADE BY OUR PLANTS IN OPERATION IS A PROOF
OF THIS FACT.**

WE MAKE NO GUARANTEES WE CANNOT FULFILL.

MAIN OFFICE AND WORKS: FOOT OF EAST 136TH STREET, NEW YORK.

BRANCH OFFICES.

PHILADELPHIA, Pa., Girard Building, cor. Broad and Chestnut Sts.
ST. LOUIS, Mo., 8th St. and Park Ave.
CHICAGO, Ill., 507-508 Security Building, Madison St. and 5th Ave.

NEW ORLEANS, La., 712 Hennen Building, Cor. Carondelet and Common Sts.
CINCINNATI, O., 5 and 7 Corwine St.
BOSTON, Mass., Tremont Building.

Armour Packing Co.

**Kansas City,
U. S. A.**

PACKERS AND JOBBERS.

**PRODUCER'S WHITE LABEL PURE LEAF LARD.
GOLD BAND HAMS AND BREAKFAST BACON.**

**PRICES MADE ON SWEET PICKLE PORK AND
BEEF HAMS UPON APPLICATION.**

**ALL FRESH AND CURED
MEAT PRODUCTS.**

C. J. GARDNER

INDIANAPOLIS, IND.

SLAUGHTERER, PACKER AND SHIPPER OF

...Manufacturer of...
**TALLOW, HIDES, FERTILIZERS AND
SLAUGHTER HOUSE PRODUCTS.**
CORRESPONDENCE SOLICITED.

Dressed Beef, Sheep,

Lambs, Calves.

WE SHIP IN OUR OWN
REFRIGERATOR CARS.

LITTLE MONITOR BEEF REFRIGERATOR AND ICE FACTORY.

See Coupon on Page 26.

March 27, 1897.

THE LARD TRADE AND THE DRAWBACK TIN PLATE PRIVILEGE.

A meeting of the lard trade and other interests concerned in the removal of the drawback privilege on tin plate as proposed by the Dingley bill was held at the New York Produce Exchange Tuesday. President of the Exchange, Henry D. McCord, occupied the chair, and Joseph H. Thayer, of H. O. Armore & Co., was chosen secretary.

The call for the meeting was signed by the following representative houses:

Central Lard Co., W. J. Wilcox Lard and Refining Co., Jersey City Packing Co., Oil Seeds Pressing Co., Williams & Flash Co., Eastmans Co. of New York, John Cinnamon, Boyce & Hartshorne, Hecker-Jones-Jewell Milling Co., Holt & Co., United Oil Co., Rohe & Bro., N. K. Fairbank Co., Whitman Bros., Fowler Bros., Ltd., Josiah Macy's Sons, Nelson Morris & Co., C. F. Coffin, P. M. Millsbaugh, Kuhne & Libby, John A. Casey, Patterson, Downing & Co., Harris & Holmes, Bartram Bros., Austin, Nichols & Co., New York Biscuit Co., D. P. Cruikshank, Occidental Oil Co., Grindall & Andressen, John H. Scheel, Fisk Bros., Refining Co., A. B. Gibbs, R. C. Williams & Co., H. J. Haynes & Lealy, H. Crowe & Co., Goshen Mfg. Co., Leatrade Bros., Columbia Oil Co. of New York, F. V. Boyd & Co., McIntyre & Wardwell, C. H. Benedict.

E. S. Whitman, of Whitman Bros., offered the following resolutions, which were unanimously adopted:

Whereas, The Tariff bill recently introduced in the House of Representatives by the Hon. Nelson Dingley, Jr., the chairman of the Committee on Ways and Means, not only increases duty on foreign tin plates from 1 2-10 cents per pound to 1 1/4 cents per pound, but in addition prohibits the allowance, or payment of drawback, when such tin plates are re-exported from the United States in the form of tin packages; and,

Whereas, The universally accepted legislative principle that duties levied on imports should not act as a tax on exports would be violated by this proposed discrimination; and,

Whereas, Said Tariff bill reproduces Section 9, the bonded manufacturing warehouse law of the Tariff act of Aug. 26, 1894, which permits the transfer into bonded factories of all foreign materials, including foreign tin plate free of duty to be used in manufacturing articles for exportation to foreign countries; and,

Whereas, Said bonded manufacturing warehouse law imposes conditions and restrictions which can only be complied with by the large refiners of oil, and packers of lard and meats, and would enable them to monopolize the export business now transacted by the smaller refiners and packers; and,

Whereas, Foreign packers are not restricted in the proposed Tariff bill from using our general customs bonded warehouses to export therefrom, free of duty, canned goods which come into direct competition with similar domestic canned goods offered for exportation to buyers for foreign account resident in the United States; and,

Whereas, Canned fruits, vegetables, fish, lard, butter, biscuits, condensed milk, edible oils, turpentine, blacking and many other articles of domestic growth and production are now sold in foreign markets in open competition with like articles packed in Canada, Germany, France, Australia and Great Britain, where tin plate, if not absolutely free of duty

in all of said countries, is at least free for use in the export trade under reasonable conditions; and,

Whereas, The effect of this proposed discrimination against American canned products not controlled by large corporations would have a direct tendency to compel American canners to surrender a large percentage of their trade to foreign competitors. Now, therefore, be it

Resolved, by the New York Produce Exchange, That the proposed discrimination in the pending Tariff bill against American canners, merits our unqualified disapproval, and that it is our deliberate judgment that if finally enacted into law, irreparable injury will be inflicted on the export trade in American products and thousands of American workmen will be deprived of honest employment.

In seconding the resolutions, Mr. S. A. Condict, of the Central Lard Co., made an explanation of the continued need of the drawback as affecting the canned goods trade.

Mr. Charles Rabadan followed with a brief outline of the export conditions, and the following-named committee was appointed to present the resolutions at Washington and to have power to take any further steps necessary to secure the continuance of the drawback—S. A. Condict, J. B. Bartram and C. Rabadan.

NEW YORK CITY AND VICINITY.

Employers in want of help, and employees in search of positions, and such wanting to dispose of machinery or desiring to purchase same should look at our WANT AND FOR SALE COLUMN on page 46.

** The Retail Butchers' Protective Association had a full attendance at its usual fortnightly meeting on Monday evening last, and was very enthusiastic over the subject of rendering its own fat. Several members present offered to give their fat for one year gratis to help make the project a success. A decision was, however, not arrived at, as the canvass of the trade was not completed. The ice business was also laid over.

** The extent of the wholesale trade of Gerzog & Rosenberg has so much increased that they have made extensive alterations on their premises, 470 Grand street, New York City, doing away completely with the retail branch of the business.

** N. H. Snyder, of 231 Fulton street, is daily receiving fine fresh Philadelphia veal and sweetbreads, and selling them at greatly reduced prices.

** R. S. Munson, of Whitestone, L. I., has obtained the government contract to supply the fort at Willett's Point, L. I., with fresh beef for six months.

** Charley Groll is now doing a large brine beef business, and any butcher wishing to buy or sell brine beef are invited to give him a call, or telephone, when they will be waited upon at once.

** The Jamaica, L. I., beef houses report trade very quiet, demand poor, and only Kan-sa City meat selling.

** Charley Brown, manager of Swift Bros., Flushing, L. I., reports a slow demand for meats, but says that cash payments are better this last fortnight than they have been since the new year.

** Michael Englert, provision dealer at 35 Delancey street, former of Forsyth, confessed judgment Saturday last to Ege & Otis for \$1,200, balance of account. He had been in business eighteen years, and owns the store property, which he hopes to sell when the new East River Bridge comes there.

(See page 40 also.)

AS REGARDS MEAT INSPECTION.

"It is natural enough," observes the New York Journal of Commerce, "that the meat exporters should object to the bother and expense of inspections, but the attitude of foreign nations is such that it is a question whether the export trade would not be killed without such guarantee. Ex-Sec'y Morton's first report advised sweeping the whole thing away, but his later reports were silent on the point and contained evidences of increasing exports. The exports of microscopically inspected pork to countries requiring inspection increased from 8,000,000 pounds in 1893 to 39,000,000 in 1895, and then dropped to 21,000,000 in 1896. The year 1895 was an exceptionally good year for meat exports. Nearly a million specimens of pork were inspected last year and 11,100 contained trichinæ. More than 23,000,000 animals of all kinds were inspected at time of slaughter, and 60,000 carcasses were condemned. Eight hundred and nineteen vessels carrying cattle and sheep were inspected as to fittings, space and other accommodations. Forty-five thousand cars in the South were cleaned and disinfected under supervision of officials. Besides the inspection at time of slaughter there was an inspection of animals numbering twelve millions going to abattoirs in other cities, making the whole number of inspections of animals over 35,000,000. The meat inspection stamp was affixed to 3,697,701 packages of beef and over 3,000,000 packages of pork, and there were sealed nearly 12,000 cars containing inspected meat in bulk for shipment to places having Government inspection and elsewhere. The chief of the Bureau of Animal Industry wishes all inter-State shipped meats as well as export meats to be inspected."

CORDAGE AND TWINE.

The well-known cordage and twine house of D. P. Winne, of 338 Broadway, New York City, has favored us with a calendar which for artistic finish and elaborate make-up is unsurpassed. In this respect this enterprising firm, founded and guided through its successful business career by Mr. D. P. Winne, merely follows its unvarying principle of making and turning out nothing but the best material, absolutely reliable from any standpoint. We could mention a large number of packing plants, linseed and cotton oil mills who purchase from the firm of D. P. Winne their supplies in the way of cordage, twine, etc. There is sewing twine and sewing twine, and we know that our subscribers consume tons weekly, and therefore recommend those who are dissatisfied with sewing twine that will break off at the least strain, and who have been accustomed to pay high prices, to write to D. P. Winne, 338 Broadway, New York, who will furnish further information.***

CERTIFICATE OF ANALYSIS. Messrs. B. HELLER & Co., Chicago.—We have analyzed and tested your Zanzibar Carbon and have found the same to be free from any injurious substances and also to be well adapted for the purposes for which you recommend it. We therefore do not hesitate to endorse the use of same to the meat and provision trades. Yours very truly,

THE NATIONAL PROVISIONER ANALYTICAL LABORATORY,

Official Chemists to the New York Produce Exchange.

H. E. STURKE, Ph. D. Chief Chemist.

NEW YORK, AUG. 14TH,

1896.

1896.

ZANZIBAR-CARBON

TRADE-MARK REGISTERED

..WE.. FIGURE THIS WAY.

All we want is an opportunity to convince you that it is to your advantage to use Zanzibar Carbon, and kindly ask you to write for Sample, Catalogue and Price List. Those who have tested Zanzibar Carbon, prefer it to all other coloring matter.

B. HELLER & CO., MANUFACTURING CHEMISTS,
249-253 S. JEFFERSON ST., CHICAGO, ILL.

Sample and 50 page book on coloring meats and sausages, FREE.

SWIFT'S..... CHICAGO DRESSED Beef, Mutton, Lamb, Veal, Pork AND A FULL LINE OF SWIFT'S FINE PROVISIONS

Can be had at our branch houses in
New York, Brooklyn and Jersey City.

BRANCH HOUSES:

NEW YORK.

G. F. and E. C. SWIFT,
Proprietors.

G. F. & E. C. Swift, 105 Barclay st.
Gansevoort Beef Co., 22 and 24 10th ave.
Washington Market Sheep Co., W. Washington Market.
Swift Provision Co., Cor. 13th st. and 10th ave.
G. F. Swift & Co., Manhattan Market (W. 35th st.).
Swift Sheep & Prov's Co., 11th ave., 34th and 35th sts.

North River Beef Co., Foot W. 39th st.
Riverside Beef Co., 130th st. and 12th ave.
Swift Bros., Morrisania, 769 and 771 Westchester ave.
Harlem Beef Co., Foot East 127th st.
Murray Hill Beef Co., Foot East 31st st.
Centre Market Beef Co., Cor. Centre and Grand sts.

General Offices,

105 Barclay St., N.Y.

Swift Brothers, 182 and 184 Fort Greene place.
Fort Greene Sheep Co., 172 Fort Greene place.

Williamsburgh Beef Co., 100 and 102 N. 6th st.
Brooklyn Beef Co., 74 and 76 Atlantic ave.
Swift Brothers, Wallabout Market.

Swift and Company, Ninth Street Market, 138 9th st. Swift and Company, Wayne Street Market.

BROOKLYN.

JERSEY CITY.

SIXTH CITY.

THE CUDAHY PACKING CO.

Packers of REX BRAND
PROVISIONS, CANNED GOODS AND BEEF EXTRACT.

SHIPPERS OF CHOICE

Dressed Beef, Hogs, Sheep, Calves, Beef and Pork Cuts, and all
kinds of Tripe and Sausages.

ALSO MANUFACTURERS OF BUTTERINE.

PACKING HOUSES.

SOUTH OMAHA, NEB.
SIOUX CITY, IA.

CHICAGO, ILL.
LOS ANGELES, CAL.

BRANCH HOUSES.

The Cudahy Packing Co., Manhattan Market, New York.	Manhat'nville "
" "	Ft. Greene Place, Brooklyn.
" "	1 Blackstone St., Boston, Mass.
" "	Clinton Market, "
" "	Worcester, Mass.
" "	Fall River, "
" "	Pittsburg, Pa.
Holmes' Provision Co.,	Holyoke, Mass.
Nashua Beef Co.,	Nashua, "
Lee & Hoyt,	New Haven, Conn.
McKroy Bros.,	Bridgeport, "
Omaha Beef Co.,	Danbury, "
Waterbury Beef Co.,	Waterbury, "
W. W. Coates & Co.,	Providence, R. I.
A. H. Wirthman Co.,	Philadelphia, Pa.

HARRISBURG, PA., OPERATED BY
HARRISBURG PROVISION CO.

LIVERPOOL, ENG.

WICHITA, KANSAS.

NEW YORK CITY.

BUFFALO, N. Y.

THE JACOB DOLD PACKING CO.

KANSAS CITY, MO.

WESTPHALIA
HAM.

CURERS AND JOBBERS OF
PROVISIONS AND CANNED MEATS

WHITE ROSE
LARD.

ESPECIAL ATTENTION PAID TO FOREIGN TRADE.

AND ALL PACKING HOUSE PRODUCTS.

ANGLO-AMERICAN PROVISION COMPANY, CHICAGO FOWLER BROS. (LIMITED), NEW YORK AND LIVERPOOL.

Pork Packers, Lard Refiners and Sausage Makers.

SOLE PROPRIETORS
OF THE UNRIVALED AND JUSTLY
CELEBRATED
BRANDS OF MEATS AND LARD:

Delmonico Peach and Cherry Brands
OF SMOKED MEATS.
Peach Leaf Lard. Apricot Lard.
ROYAL LILY COMPOUND.

Agents in most of the principal cities in the United States. Correspondence solicited.

ANGLO-AMERICAN PROVISION CO.

BENTLEY & GERWIG, Limited,

MANUFACTURERS OF

ROPE, TWINE and CORDAGE,

Hide Ropes, Pork Packers and Sausage Twine a specialty. Cotton Waste, etc.

69 WEST WASHINGTON STREET

CHICAGO.



TRADE MARK **KNICKERBOCKER** REGISTERED.

ESTABLISHED OVER FIFTY YEARS.

IMPORTERS, MANUFACTURERS AND DEALERS IN

Whole & Pure Ground Spices,

Whole and Pure Ground Herbs, Rubbed Sage, Thyme, Savory, Marjoram, etc.

PURE BORAX for the Provision Trade. Grinding for the Trade a Specialty.

Send for Quotations and mention this paper.

WILLIAM J. STITT & CO.
154 & 156 Chambers Street,
NEW YORK CITY.

MANUFACTURERS OF

REFINED SALT PETER.

CRYSTALS,
GRANULATED,
POWDERED.

FOR PACKERS' USE.

ON CARLOAD LOTS OF

Dressed Beef, Mutton, Veal and Hogs,
also Sweet Pickled and Smoked
Meats, Kettle-Rendered Lard,
etc.

We are in the great Iowa cattle and hog
belt and think we can do you some good.

TRI-CITY PACKING & PROVISION CO.

Manufacturers and Jobbers.

DAVENPORT, IOWA.

ICE AND REFRIGERATION.

(Continued from page 34.)

The Board of Directors of the People's Ice Manufacturing Co., in Sumter, S. C., has elected Mr. W. Waites Reese, of Staatsburg, as superintendent, and Mr. W. J. Hutson as assistant superintendent.

W. W. Murray, manager of the National Ice Co., in Los Angeles, Cal., had a narrow escape recently from a serious accident. He was standing on a ladder splicing a piece of rope, when his coat caught in the line shaft, throwing him against it. Mr. Murray is a heavy man, and his weight saved him from being carried around the shaft and instantly killed, as his clothing gave way and was torn from him. He received bad bruises, but is thankful that he escaped so well.

Grace Bros. Brewing Co., in Santa Rosa, Cal., is remodeling and enlarging its plant. A ten-ton Linde ice machine has been purchased, and the insulation of the cold storage rooms is about complete.

E. A. Hopkins has been in Port Angeles, Wis., looking into the advantages for building a cold storage there. Mr. Hopkins is from Mankato, Minn., and represents a large cold storage house there.

The St. Louis (Mo.) Ice Manufacturing and Cold Storage Co. is enlarging its plant and is to have a modern concern in every respect. Contracts are let for two fifty-ton engines, and the company is working night and day to be able to turn out ice by May 1 next.

The Mexico Crystal Ice Co. has been incorporated at Mexico, Mo., with a capital stock of \$18,000, by S. R. Moon, Louis Wohlgemuth, Geo. A. Morris, Jr., and others.

A site has been selected for an artificial ice plant by Mr. Eichelberger, in Florence, Col., to be erected by Denver capitalists. The daily capacity will be thirty tons. Work is to be started at once, and a large cold storage building will be erected in connection with the factory.

An ice factory will be erected in Arigo, Ky., by the Artificial Ice Co., of Ashland, Ky. The machinery has been purchased.

The stockholders of the Reading (Pa.) Cold Storage Company at a recent meeting declared a dividend of 7 per cent. on the \$150,000 capital stock of the company. The following directors were elected, the president casting the ballot: C. Q. Guldin, A. J. Brumback, Dr. W. H. Eck, John H. Printz, J. G. Leinbach, J. A. Strohecker, Geo. O. Rungeon. The latter gentleman was elected treasurer and J. F. Christman secretary. The directors will meet for reorganization April 1 and elect a president.

The incorporation of the Washington Cooling Co., with capital stock placed at \$500,000, has been applied for by John M. Field, Louis M. Ritchie and Hyman Bowdemaker, of Washington, D. C., and Charles T. Clark, of New York. The purposes of the company are stated to be the erection of ice and cooling plants, etc.

The Express Refrigerator Car Co., of Gainesville, Fla., has been granted a charter for the purpose of manufacturing refrigerator cars, patented by A. J. McArthur; capital stock, \$50,000. A. S. Wooley, president; Marcus Endel, vice-president. The directors are A. J. McArthur, W. W. Hampton, Geo. C. Crom, Geo. W. Emery, E. E. Cannon, J. A. Ammon and the two officers.

RECENT PATENTS AND TRADE MARKS.**PATENTS.**

579,301—CENTRIFUGAL LIQUID SEPARATOR. Carl J. Lundstrom, Little Falls, N. Y., assignor to D. H. Burrell & Co., same place. Filed Aug. 24, 1893. Serial No. 483,936. (No model.) Patented in England Aug. 4, 1893, No. 15,843; in Germany Aug. 29, 1893, No. 80,877, and in Sweden Aug. 28, 1893, No. 5,304.

579,367—WATER COOLER AND REFRIGERATOR. John P. Schimmel, Madisonville, Ky., assignor of one-half to John Frederic Heafer, same place. Filed Oct. 12, 1895. Serial No. 565,503. (No model.)

579,444—WEIGHING MACHINE. Francis H. Richards, Hartford, Conn. Filed Oct.

HENRY ELLSWORTH & CO., PORK PRODUCT.**Exporters of Provisions, Lard, Oils, Greases, Etc.**

We have unequalled facilities for handling orders for ALL KINDS of green and cured meats.

CORRESPONDENCE SOLICITED.

Members Chicago Board of Trade. 637-633 Rialto Building, Chicago. Cable Address, Ellsworth, Chicago.

Horse Casings Wanted

WEIL'S CASING COMPANY,
626-630 HOWARD ST., BUFFALO, N. Y.,
Cleaner of and Dealer in
all kinds of
SAUSAGE CASINGS.
Best Spices, Saltpetre and Potato Flour.

F. BECKER & CO.
3362 South Halstead St., CHICAGO, ILL.

Manufacturers of **BEEF and HOG CASINGS**
and Dealers in **IMPORTED SHEEP CASINGS.**
Also, all kinds of **BUTCHER SUPPLIES.**
Factory, Union Stock Yards. Telephone Yards 665.



The Latest the Greatest and the Up-to-Date

TOILET AND LAUNDRY

SOAP MACHINERY

"Fine Dies Make Fine Soap."

HOUCHIN & HUBER,

35-45 Fifty-third St., BROOKLYN, N. Y.

When in want of anything write us. We are dealing in new Machinery all the time and are selling it to the best houses. Fine Soap Dies specialty. Aluminum dies a reality, and at a price only slightly in advance of common brass.



17. 1896. Serial No. 609,199. (No model.) This refers to the Pratt & Whitney weighing machine, whose advertisement will be found elsewhere in "The National Provisioner."

TRADE-MARKS.

29,734—FERTILIZERS. J. J. Turner & Co., Baltimore, Md. Filed Feb. 27, 1897. Essential feature, the word "Excelsior." Used since 1859.

29,720—BUILDING PAPER, METAL ROOFING AND FABRIC ROOFING. The Kansas City Metal Roofing and Corrugating Company, Kansas City, Mo. Filed Jan. 25, 1897. Essential feature, the words "Ark Brand," and a representation of Noah's ark. Used since Nov. 15, 1896.

MONTHLY EXPORTS OF PROVISIONS.

Foreign exports of provisions from leading customs districts of the United States during the month of February, compiled from preliminary reports of the Bureau of Statistics, representing about 99 per cent. of the total of such exports:

	Feb., 1897.	Feb., 1896.
	Pounds.	Pounds.
Bacon	45,528,000	31,181,000
Hams	10,885,000	8,562,000
Pork	5,301,000	5,590,000
Total meats	61,714,000	45,333,000
Lard	41,941,000	25,631,000
Total hog products	103,655,000	70,964,000
Fresh beef	24,448,000	18,320,000
Salted beef	2,418,000	6,730,000
Canned beef	3,412,000	4,385,000
Total beef	30,278,000	29,435,000
Tallow	2,520,000	3,337,000
Butter	1,900,000	1,931,000
Cheese	3,108,000	2,167,000
Imitation butter	431,000	340,000
Oleomargarine oil	7,205,000	7,830,000
Total	149,097,000	116,004,000
Cattle, number	29,401	33,985
Hogs, number	895	5
Total value	\$12,400,000	\$12,197,000

—Price Current.

BUSINESS CHANGES.**MASSACHUSETTS.**

Holyoke.—Annie Navins, groceries and meat, has given a chattel mortgage for \$100.

Hudson.—A chattel mortgage of \$150 given by Kennedy Bros., produce and provisions, to the Boston Loan Company has been discharged.

NEW HAMPSHIRE.

Manchester.—Philip Voyer, grocer and provisioner, is succeeded by Gagnon & Lemerise.

NEW YORK.

Parksville.—Sherman G. Sprague, butcher, is succeeded by William Huff.

East Concord.—S. D. Vance & Co., manufacturers of cheese, have given a chattel mortgage of \$9,000.

OHIO.

Kent.—W. A. Johnson, meat market, has given a real estate mortgage of \$1,553.

Wilmington.—D. W. Terrell, a butcher, has assigned.

PENNSYLVANIA.

Philadelphia.—The firm of Crawley & Kahn, meat, has been dissolved, F. G. Crawley continuing the business.

Clearfield.—A judgment of \$1,096 has been brought against W. B. Carley, of Buchanan & Carley, butchers.

Shamokin.—A judgment of \$500 has been obtained against Valentine Mrowka, of Valentine Mrowka & Bro., butchers.

Williamsport.—A revival judgment for \$500 stands against Hiram Winner, meat market.

SOUTH DAKOTA.

Hudson.—A. L. Fritts, a dealer in live stock implements, has given a chattel mortgage for \$525.

VERMONT.

Bennington.—The firm of Sweet & Perry, market, is succeeded by C. D. Sweet.

"Established 1868 "

S. OPPENHEIMER
& CO.

Manufacturers and
Importers of

Sausage Casings

OF EVERY DESCRIPTION.

Importers and Dealers in

SPICES.

Sausage
Makers'
Specialties.

ALL KINDS OF

MACHINERY

96 and 98 Pearl Street

NEW YORK

449 Wabash Avenue

CHICAGO

47 to 52 St. John Street

LONDON

15 Katnarinen Strasse

HAMBURG

Clement Terrace

WELLINGTON

BERTH LEVI & CO.,

59 PEARL STREET, NEW YORK.

19 MICHIGAN AVENUE, CHICAGO, ILL.

HOG AND BEEF CASINGS.

Importers of English, Russian and New Zealand Sheep Casings.

BEST GERMAN POTATO FLOUR.

FOOD PRESERVATIVE (DRY ANTISEPTIC).

TELEPHONE No. 1251 BROAD...

BECHSTEIN & CO.

SAUSAGE CASINGS

New York: 12 Coenties Slip.

Chicago: 73 Market Street. London: 118 Great Suffolk Street.

Illinois Casing Company,

Cleaners and Importers of

Sausage Casings,

102 Michigan Street, - - - - Chicago.

JOSEPH BACHARACH,

(Established 1876.)

IMPORTER AND EXPORTER

OF ALL
KINDS OF

SAUSAGES

347 Greenwich Street,

Telephone,
556 Franklin. NEW YORK, U. S. A.

VORNBERGER, HIRSCH & CO.

(Limited).

MANUFACTURERS AND CLEANERS OF PRIMEST QUALITY

610 West 39th Street, NEW YORK.

5 Cowcross St., LONDON. 48 Market St., GLASGOW.
19 St. Andrew St., LIVERPOOL.

Established throughout Great Britain and Germany.
ONE QUALITY ONLY.

Sheep Casings,
Cattle Guts,
Hog Casings.
"THE BEST."

SPICES

PLAUT & STRETCH,
Importers and Jobbers of SPICES,
"PURITY SPICE MILLS,"
50 Pearl Street, NEW YORK.
Supplies for the Packing, Provision and
Sausage Making Trades a specialty.
QUOTATIONS AND SAMPLES SENT TO ANY ADDRESS.

**WOLFSKEHL, MEYERS & CO., SAUSAGE
CASINGS.**

256 PEARL STREET, NEW YORK.

SALTPETRE KNOWLES BROS.
GRANULATED, POWDERED, CRYSTALS. . . MANUFACTURERS AND REFINERS. . .

March 27, 1897.

NEW YORK CITY NOTES.

(Continued from page 30.)

** A new meat market was opened last week at 206 Nepperhan avenue, Yonkers, N. Y., by Charley Schreck, a well-known butcher of that neighborhood.

** Nelson Morris & Co.'s branch house at Westchester avenue is nearing completion, and will be opened about the first of the month.

** Armour & Co.'s branch establishment at Westchester avenue not only can boast of being the first in line to answer the requirements of this growing neighborhood, but also that the manager, Mr. J. F. Henry, has kept up its good reputation, for he is the most popular man among the butchers of that district and the principal sought-after personage throughout the whole block.

** Jas. McLean put in a new ice box and office this week for A. L. Louis, 709 Columbus avenue, also a large ice box, 13½ x 7½, for B. Buschbaum, 904 Columbus avenue, both of New York City.

** A new movable office has been placed in the retail department of Rohe & Bro., Thirtieth street and Eighth avenue, New York City.

** Adams & Co., 102 Barclay street, has a new marble counter and ice box put in this week by James McLean, of this city.

** Daniel Mugler will open a new market to-day (Saturday) at Johnson avenue, corner Grand, Kearney, N. J. The fittings and fixtures are of the most improved pattern, very elaborate and ornamental. A first-class trade is to be done in this neighborhood, and no expense has been spared to invite the patronage of the cash-paying public. Mr. Mugler has had many years' experience as a butcher and is evidently up to date. "The National Provisioner" wishes him success.

** W. C. Lawrence, of Ardsley, N. Y., has recently had new counters put in, and this week will see the completion of an elaborate ice house, 12x8, with glass sides and mirrored door. He has an office in the City Hall, his meat market being on the opposite side of the street, immediately facing it, and to note the sign (W. C. Lawrence, Butcher) hanging from one of the City Hall windows is a leading feature of the town.

** The Board of Health meat inspectors for the week ending March 24 have condemned 10,000 lb beef, 500 lb veal, 1,600 lb sheep, 162 calves (7,900 lb), 1 barrel game (50 lb), 16 barrels poultry (3,200 lb).

** Thomas Loughran, a wholesale butcher of Washington Market, died Wednesday at his residence, 141st street and Hamilton place. Mr. Loughran was born in Ireland sixty-seven years ago and came to this country when a boy. He secured employment in a wholesale meat house, and not long after went into business for himself. Of late he had been active in real estate affairs, and was an extensive owner of property on Washington Heights. He took some interest in politics and was a member of the Tammany Hall General Committee. His wife and two daughters survive him. Funeral services will be held to-day at the Church of the Annunciation, 132d street and Old Broadway.

* The Senate of New York State Wednesday ordered the Greater New York charter to a third reading without amendment, just as it passed the Assembly. The bill was made a special order for Thursday morning. Its provisions, so far as it relates to the trade this paper represents, were published in full several weeks ago. Later—The bill passed the Senate Thursday and is now ready for the Governor's action.

Supplementary Reports.
PROVISIONS AND LARD.

(Continued from page 10.)

Thursday's markets opened firm, to a point better in the West, or another deficit of 4,000 in receipts of hogs at Chicago, with a 5c. higher market, except on Yorkers, with packers and shorts buying, and light offerings, English packers and shippers being the chief buyers of ribs and lard. But at the advance packers turned sellers, causing a reaction, with the closing prices practically the same as on Wednesday, after a fairly active trade. Receipts of hogs at the West were 45,000 against 54,000 a year ago. The week's packing at the West was 275,000 hogs against 240,000 last year. Hogs in New York were ½ higher all around on moderate supplies and a good demand, to supply the export inquiry for bellies, last week's purchases having cleaned up the market on the favorite weights. Sales for the day were 14,000 lb of 12-lb ribs loose at 5½c., 100 boxes of clear 14 to 16-lb, 5c.; for England; 600 12 to 13-lb city pickled hams, 9c., with shoulders strong at 5¼c., but dull. In Western meats little was doing, but prices were firmly held. Western cash lard was held at 4.45 in tcs., 4.22½ in tanks, with no sales of either reported and little demand. 130 tcs. of city sold at 4.20, with iron bound do. quoted 4.60 nominal, Cuba not having been in the market so far, for the week. Refined lard was dull for all markets and unchanged; 200 pork sold at 9.25 to 9.75 for mess, which is 25c. off late top prices.

Friday's markets were 10 off opening on pork, 5 on ribs and 2½ on lard, on selling by Chicago commission houses, to steady upon good buying before noon, and on continued light receipts of hogs, attributed to the floods and transportation interruption generally. Afternoon prices West were easier to clear bottom, and 7½@10 off for day on pork, 2½ on lard and 5 on ribs. Spot trade flat; no exporters in market, and few refiners. 75 boxes clear bellies sold at 5¾, 300 pork at last prices, 75 tcs. Western lard, 4.42½; tanks of oil at 4.20; 100 tcs. city, 4.20.

It is estimated the stocks in Chicago April 1 will represent 102,000 barrels contract pork and 56,000 barrels old pork; of contract lard, 181,000 tierces, aside from 78,000 tierces of oil; of ribs, 25,000,000 pounds.

Packing March 1 to March 18 was 770,000 hogs, against 645,000 last season same time.

Closing New York quotations were:

Lard.—Spot Western at 4.42½ asked in tierces and 4.20c. in tanks; city refiners at 4.20c., iron-bound do. held at 4.60c. Refined, Continent, at 4.75c.; South America, 5.05c.; Brazil in kegs, 6.15c.; compound, 4½@4½c. for city and 4½@4½c. for Western; neutral, 5½c. West and 5½@5½c. New York.

Pork.—\$0@\$9.75 for mess, \$9.75@\$10.50 for family, including city, and \$9.50@\$10.75 for clear. City Pickled.—Shoulders, 5½@5½c.; pickled hams, 9@9½c.; 10-lb rib bellies, 5½c.; 12-lb rib bellies, 5½c. loose; clear, boxed bellies, 5½c. nominal. In Chicago, 16-lb green hams, 8½@8½c.; 14-lb, 8½c.; 12-lb, 8½@9c.; 16-lb s. p. hams, 8½c.; California s. p. hams, 5½@5½c.; green New York city hams, 12-lb, 9½c.; 10-lb, 9½c.; green bellies, 5½@6½c. for the range.

Beef.—Corned and roast, \$1.10@\$1.15 for 1-lb cans; 2-lb cans, \$1.90@\$2.10; 4s, \$3.95; 6s, \$6.25@\$6.50; 14-lb, \$14; mess, \$7@\$8; packet, \$7.50@\$9.00; family, \$9@\$11; extra India mess in tierces, \$12.50@\$16; hams, for both extremes, \$18 West for new, cost and freight here \$19; job lots, \$19. Tongues—\$22@\$25 for large and \$18.50@\$20.50 for small.

TALLOW AND STEARINE.

Thursday's markets were dull, but firm at previous quotations in New York, namely, 3½c. for prime city, without transactions reported, or orders of any importance in the market at that price, though holders were also more reserved in their offering at the same figure. Of country, 50,000 lb sold, in addition to 100,000 lb on Wednesday, at 3½@3½c. as to quality. Chicago was again quoted strong at 4c. for No. 1 packers, but without transactions reported; yet still without inquiry here, for that market, which has formerly been a buyer in New York, at the present difference in quotations. This fact has led some to regard the

late advance in Chicago, as possibly based upon short sales of certain brands, that had to be delivered on contract. At all events, there is something yet unexplained in the 4c. market there, with 3½c. in New York. Oleo stearine was quoted steady but nominal in both markets at 4½c., without demand at the moment from the refiners, and none whatever from exporters or candle makers. Oleo oils in Rotterdam were reported firm at 37 to 39 florins for extras and 35 florins for second brands, with sales of about 800 bbls. for the week, estimated about half of each of the above grades. In lard stearine there was an easy feeling, though old prices were still asked and buyers out of the market for the moment. No change was reported in either lard or other animal oils, though the former was reported in fair demand, part for home, part for export. 200 hhds. city tallow were turned in on weekly contract at 3½c., the low price, and 400 hhds. to the local trade at the same, making 600 hhds. city taken for the week.

Friday's markets were practically unchanged from those of Thursday, without special activity or feature, and only small sales were reported of anything.

Closing New York quotations were:

City lard stearine, 4½c. nominal; Western lard stearine nominal at 4½c.; oleo stearine, 3½@3½c.; white do., 3½@3½c.; tallow stearine nominal; oleo oil, 6½c. for No. 1, 5½c. for No. 2 and 5c. for No. 3; at Rotterdam, 37@39 florins; oleo stearine at Chicago, 4½c.; yellow grease stearine, 3½c.; white do., 3½@3½c. nominal; City tallow, 3½c.; country (packages free), 3½@3½c., as to quality; edible, 3½c. Chicago prices are: Prime packers, 4c.; country, 3½@3½c.; No. 2, 2½c.

Greases.—Brown, 2½@2½c.; yellow, 2½@2½c.; white, 3 7-10@3½c.; bone and soap, 2½@3c. At Chicago, 3½c. for A white, 3c. for B white, 2½c. for yellow, 2½c. for brown and 2½c. for bone.

ANIMAL OILS—WHOLESALE AND JOBBERING.		
Lard oil, prime, city, present make.....	40	a 42
" " Western.....	..	..
Neatsfoot oil, white.....	60	a 70
" " prime.....	47	a 53
" " No. 1.....	45	a 48
" " No. 2	41	a 43
Red saponified.....	3½	a 34
Red elaine.....	28	a 32
Tallow oil, prime.....	38	a 40
Degras, German.....	1½	a 1½
" English, brown.....	1½	a 2
" " light.....	2½	a 2½
" " French	4½	a 5½

COTTONSEED OIL.

Late on Wednesday there was a marked renewal in export demand at New York for prime summer, and 300 barrels were taken at 23½c. for shipment first week of April, 300 bbls. at 23c. prompt, 1,000 bbls. 23½c. buyers' option, all April and all for export.

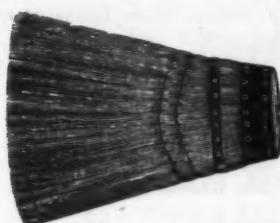
On Thursday 1,500 bbls. more were taken at 23c., prompt shipment, and 4 tanks of crude at the South were done late Wednesday at 16c., at which refiners were in the market on Thursday, with none offered. Crude in barrels was scarce and firm in New York at 20½c., though no sales were reported. The above business in prime yellow was all for the Mediterranean, and new business, showing considerable improvement in the demand from those markets and the first of any importance for many weeks. A well-informed receiver says his company (one of the leading ones) estimates the stock of oil in the United States at 200,000 barrels less than a year ago, held mostly at the South, of which the Mississippi Valley has more and Texas very little, compared with its holdings a year ago, which were large, while New York had 65,000 to 70,000 barrels, against not over 30,000 barrels now.

Friday's markets were quiet and steady at Thursday's prices, but orders seemed to be filled for the moment with sellers of spot yellow at 23c. and no buyers, while there was some talk of all April shipments at 23c., but not offered.

Cottonseed, crude, prime.....	a 20%
" " loose, f. o. b. mills.....	16 a 17
" " Summer yellow, prime.....	23 a 23½
" " " off grade.....	23½ a 23½
" Yellow, butter grades.....	25 a 26
" White, prime.....	a 26
" Winter	a 29

HOBOKEN BUTCHER GUARDS' RECEPTION.

The Hoboken Butcher Guards will hold a reception at Odd Fellows' Hall there Tuesday evening next, March 30, at 8 o'clock. The event is expected to be most interesting and enjoyable, and a large attendance is already practically assured.



No. 4 Rattan Reed and Broom Corn Mixed Broom.

For Heavy Work, Packing Houses, Warehouse, Meat Market, Etc.

The fastening holds the material **SOLID**, does not work loose on the handle or come to pieces in work but will wear down. We make push brooms, Bass, Rattan, and Steel Wire. Prices on application, and trial orders solicited.

JOS. LAY & CO., Manufacturers, Ridgeville, Ind.

THE CONTINENTAL HOTEL
IS THE ONLY FIRST CLASS HOTEL IN THE IMMEDIATE BUSINESS
AND AMUSEMENT CENTER OF THE CITY CONDUCTED ON THE
AMERICAN PLAN AT \$2.00 PER DAY
STEAM HEAT, PASSENGER ELEVATOR
AND OTHER MODERN CONVENiences.
TABLE AND SERVICE THE BEST
ROOMS NEWLY AND NEATLY FURNISHED. THE NEXT TIME YOU ARE IN CHICAGO TRY
THE CONTINENTAL, YOU WILL FIND IT HOMELIKE AND COMFORTABLE.
CHAS. O. BLOOM PROPRIETOR

WABASH AVENUE AND MADISON STREET. CHICAGO, ILL.

ORGANIZED 1888.

The New York Butchers' Calfskin Association,
OFFICE, 407 E. 47th STREET, NEW YORK CITY.

Sell your calfskins to us. We divide all profits to stockholders. No other dealers do this.

Our wagons call at your place for calfskins.

\$3.00

\$3.00

\$3.00

ORDER FOR BOOK.

Send C. O. D. by express, as soon as published, one copy of your book

"The Manufacture of Cottonseed Oil,"

at the price of Three Dollars per copy.

NAME _____

THE NATIONAL PROVISIONER PUB. CO.,

284-286 PEARL STREET,
NEW YORK.

ADDRESS {

\$3.00

\$3.00

\$3.00

Where hard sweeping and scrubbing
is needed to be done.

OUR YELLOW BOOK!

...The...
**Manufacture of
Cotton Seed Oil**

AND ALLIED PRODUCTS

IS NOW READY !

NOTICE.

This book is now ready for delivery, price, \$3 per copy.

Registered postage, 25 cents. Send check or postal order for \$3.25.

TABLE OF CONTENTS.

COTTONSEED OIL MANUFACTURE:

- a The fundamental principles of oil milling.
- b A systematic analysis of cake indispensable.
- c Extremes of temperatures in cooking the meal equally wasteful.
- d Short time pressing baneful in its results.
- e The steam pressure gauge an important factor.
- f The recording thermometer used to indicate past conditions present in heater.
- g Pressure and its correct application in the obtainment of extractable oil.
- h The recording hydraulic pressure gauge.
- i Modern heaters, their construction and operation.
- j The difficulty experienced in treating meals.
- k Hints to practical oil millers with regard to pressroom appliances and methods.
- l Refining and filter press classification.
- m Evils attending the use of the hair mat.
- n Hard cake and measures for its prevention.
- o The manufacture of cottonseed oil on a small scale incompatible with economy.

LATEST METHODS FOR REFINING OF COTTONSEED OIL:

Cottonseed Oil for soap making.

CAKE ANALYSIS:

Testing process, apparatus required, cost of same.

IMPORTANT ADDENDA:

FILTER PRESSES AND OTHER MACHINERY.

RULES REGULATING TRANSACTIONS IN COTTONSEED OIL AMONG MEMBERS OF THE NEW YORK PRODUCE EXCHANGE.

BUTTERINE AND MARGARINE MANUFACTURERS IN EUROPE.

COTTON OIL MILLS IN THE UNITED STATES.

The National Provisioner Publishing Co.

284 & 286 Pearl Street, New York.
11 Rialto Building, Chicago.

WE ARE SHORT OF COPIES OF THE NATIONAL PROVISIONER OF THE DATES OF JAN. 25, 1896, AND JAN. 9, 1897. WE WOULD BE OBLIGED IF OUR FRIENDS WOULD SEND US COPIES OF THOSE DATES, AND WE WILL CREDIT THEIR SUBSCRIPTION ACCOUNT ACCORDINGLY.

VIEWS ON THE TARIFF.

Chicago, March 24.—Cattlemen are aroused over the proposed tariff of \$6 a head on every animal imported into the country. As applied to Mexican cattle they consider this duty absolutely prohibitive. "Mexican cattle are worth only \$6 or \$7 a head," said a representative of Armour & Co., speaking for the head of the firm. "The people in the Southwest who raise corn to feed the cattle and the rancheros would be greatly injured by such a duty. Six dollars each is too much on the cheap grade of cattle. It is almost 100 per cent, though, of course, this is not true of the cattle that come from Canada. We favor an ad valorem duty."

Edwin F. Swift, speaking for Swift and Company, said he did not think the tax on tin would materially affect the packing interests. "A great deal of tin is already made in this country," said Mr. Swift, "and the duty will not, in my opinion, affect the prices of canned goods. The difference will be so slight that it will scarcely be noticed by consumers."

D. E. Hartwell, secretary of Swift and Company, said: "We have sent for a copy of the Dingley bill, and have not received it, and therefore are not prepared to express an opinion as to the merits of the measure as it affects our business."

A GOOD BROOM

Is a necessity in every packing house, oil mill and rendering works. Some brooms cannot stand the wear and strain. Others can. The latter are the style manufactured by Joseph Lay & Co., of Ridgeville, Ind. See ad. on page 41. ***

THE REFRIGERATORS.

As manufactured by the Siebert Refrigerator Works, of Camden, N. J., always give the purchaser satisfaction, and that is the chief requisite. Consult the firm's adv. elsewhere in this issue, and then write to them. ***

The erection of a soap factory in Jacksonville is contemplated by Charles Cameron, of Atlanta, Ga.

THE UNION SAUSAGE STUFFER

MADE IN TWO SIZES.
34-lb. Size, • • \$66
36-lb. Size, • • \$8

This Stuffer occupies less room than any other and is simple and rapid in operation.

Send for Descriptive Circular.

MANUFACTURED BY

**The UNION
Machine Works,**

413 Cherry Street, Philadelphia, Pa.
New York Agents:
S. OPPENHEIMER & CO. • • • 96 PEARL STREET.



2,000
Machines Sold
OF

**NEW SILENT
MEAT CUTTER.**
Send for Catalogue.

P. Billingham & Co.,
Trenton, N. J.

New York Agents, S. OPPENHEIMER & CO., 96 & 98 Pearl St.

CAKE AND MEAL MARKET.

In New Orleans the market is quiet and steady for cake and meal, quotations being 21 to 22c.; \$16.50 to \$17 per short ton, and \$17 to \$17.50 per long ton for export. Receivers' prices are quoted as follows. Cottonseed, \$7 per ton of 2,000 lb net to the mills, no commission of any kind to be added; cottonseed meal jobbing per carload at depot, \$16 to \$16.25 per short ton of 2,000 lb; for export per long ton of 2,240 f. o. b., \$17.50 to \$17.75 for current month; oil cake for export, \$17.50 to \$17.75 per long ton f. o. b.

THE DEATH ROLL.

William Bennett, of Bennett Bros., wholesale hog dealers, Albany, N. Y.
Christ Stoche, butcher, Pittsburgh, Pa.
Walter S. Burnham, retail provision dealer, Boston, Mass.

P. DONAHUE & SON,
Highest Prices Paid for
HIDES, FAT AND SKINS,
658 W. 39th St., New York.

Wurstmacher!
SAUSAGE MAKERS!
SAUSAGE MAKERS!

BUTCHERS

who desire one of the following books on
Sausage Making, etc.

Bücher für Fleischer und Delicatessenwarenhändler.

ANFERTIGUNG der Fleischwurst. Anleitung zur Herstellung einer fein schmeckenden Cervelatwurst. \$0.75

Die BARDONNET. Die Musterung der Haustiere, nebst genauer Angabe derjenigen Stellen, durch deren Verfleihung eine genaue Gewichts- und Fettabschätzung ermöglicht wird. Mit 36 Abbildungen. \$0.75.

A. CNYRIM. Die Conserverung der Nahrungsmittel, und zwar des Fleisches, Herstellung des Fleisch-extractes u. s. w. \$1.10.

F. EPPNER. Die deutsche Wurstfabrikation (Todz). \$0.75.

A. HAUSNER. Die Fabrikation der Conserven und Canditen. Vollständige Darstellung aller Verfahren der Conservierung für Fleisch etc., mit 27 Abbildungen. (Ch. T. B. 23) \$1.75; cl. \$2.00.

R. HILDEBRAND. Das Fleischer- oder Metzgergewerbe mit allen seinen Nebenwerken, mit 32 Abb. \$1.25.

JOH. IVERNSEN. Die deutsche Charcuterie, Wurst- und Fleischwaren-Fabrikation. \$1.00 cl. \$1.10.

FRZ. LILL. 39 Recepte zur Herstellung der feinsten Wurstsorten und Charcuterie. \$5.25.

N. MERGES. Lehrbuch der Wurst- und Fleischwaren-Fabrikation. \$0.75; cl. \$1.00.

—Die internationale Wurst- und Fleischwaren-Fabrikation, mit 29 Abb. (Ch.-T. B. 173) \$1.25; cl. 1.50.

A. SCHELLENBERG. Neues Receptbuch für Delikatessewaren, Materialwaren und Viskualienhändler. \$1.00

H. SCHNEIDER. Die Viehmast, oder: Die Mästung aller in der Landwirtschaft zu haltenden Thiere. \$0.60.

G. P. F. THON. Tabellen zur Gewichtsschätzung des Schlachtviehes. \$0.40.

Can obtain same at publishers' prices by addressing with remittance.

NATIONAL PROVISIONER PUBLISHING CO.

284-286 Pearl Street, New York.

11 Rialto Building, Chicago.



* The case of William Thorn against the Indianapolis Abattoir Co. and others, has been decided by Judge Harvey in that city in favor of the defendants. Thorn sued for \$20,000 damages, claiming that amount as a balm for injuries received in a gas explosion at the abattoir, alleging that it was the company's fault. Judge Harvey held that Thorn had failed to fix the responsibility on any of the defendants.

An addition is to be built to the soap factory of Day & Frick, 1760 Howard street, Philadelphia. The cost will not exceed \$2,500.

E. S. NUTE

E. E. JOHNSTON.

NUTE & JOHNSTON,

COMMISSION BUYERS OF

**HOGS, SHEEP
AND CATTLE.**

**N. Y. CENTRAL LIVE STOCK YARDS
EAST BUFFALO, N. Y.**

OFFICE, ROOM 16, EXCHANGE BUILDING.

A. ZIMMER, Sheep Buyer. JOHN ENOCH, Cattle Buyer.
C. W. ZIMMER, Hog Buyer.

ADAM ZIMMER,

COMMISSION MERCHANT

FOR THE PURCHASE OF CATTLE,
SHEEP AND HOGS.

OFFICE, Live Stock Exchange, N. Y. C., Room 19,
STOCK YARDS.

East Buffalo, N. Y.

I do a strictly Purchasing Business, I will not handle any sole stock under any consideration, consequently I have but one interest in the market, THAT IS to keep prices as low as possible.

WALTER MILSOM,
Commission Merchant
FOR THE PURCHASE OF LIVE HOGS.

997 William St., East Buffalo, N. Y.

N. Y. CENTRAL STOCK YARDS.

HARRY ROBE, ASSOCIATED.

B. C. SHEPARD,

Commission Buyer of

**CATTLE,
HOGS AND
SHEEP.**

N. Y. Central Stock Yards,
EAST BUFFALO, N. Y.

Office, Room 13,
Live Stock Exchange Building.

READ

THE NATIONAL PROVISIONER

Brokers, Commission Merchants and Bankers.

Jacob Leeser,
Provision Broker,
 429 Produce Exchange,
 NEW YORK.

ESTABLISHED 30 YEARS.

THOMAS GOURLARD & CO.,
 Inspectors, Weighers, Etc.
Provisions, Lard, Tallow, Oleo, Oils,
 —Etc.—
 NEW YORK AND CHICAGO.

P. G. GRAY,
 Broker in Packing House Products, Oils,
 Grease, Tallow, Fertilizers, etc.,
PROVISIONS.
 45 North Market St., Boston, Mass., U.S.A.
 Correspondence Solicited.

H. C. ZAUN,
Provision Broker,
 Room 409 Produce Exchange,
 NEW YORK.

I do a strictly Brokerage business, neither buy nor
 sell for my own account. Reference, the Provision
 Trade of New York generally.

JOHN JAMISON,
 Philadelphia.
S. P., SMOKED MEATS,
LARD and COMPOUND
 ... Sold on Commission.

W. Wilson Tickle,
COMMISSION MERCHANT,
 166 and 167 Palmerston Buildings, LONDON, E.C.
 Proprietor of THE AUSTRALIAN TRADING WORLD)

Will undertake any Commissions for the purchase
 of English goods.
 Samples of Cutlery, etc. furnished by parcel post
 on receipt of remittance to cover cost.
 Orders must be accompanied with cash or its equivalent.

ROBT. H. KELLY & CO.,
 Grain, Provisions, Stocks and Cotton.

Member Chicago Board of Trade since 1879.

THE POSSIBILITIES

For money making are unusually good at the present time, and the extremely low prices now prevailing should be taken advantage of by the investor. Our handbook and daily review of the market sent free upon request. "Facts and Figures," the best and most complete book published pertaining to the speculative business, sent to any address for 10 cents in stamps. Always glad to correspond with any one concerning the markets and cheerfully furnish any information wanted in regard to same. Favor us with a share of your business and you will not regret placing your order through our house.

ROBT. H. KELLY & CO.,
 Gen'l Offices, Entire 10th Floor, 226 LaSalle, Chicago.

NORTON & WORTHINGTON,
 BROKERS, No. 3 Chicago Board of Trade, CHICAGO.

Execute Orders for the Purchase or Sale of
 GRAIN, PORK, LARD, RIBS, SEEDS, ETC.,
 FOR CASH OR FOR FUTURE DELIVERY.
 Correspondence Invited.

DAVID C. LINK,
General Commission
 AND
Export Broker.

411 PRODUCE EXCHANGE
 NEW YORK.

OLEO STEARINE A SPECIALTY.

WHEAT AND PORK.

Everything in the situation justifies much higher
 prices for wheat and pork and we advise buying on
 any breaks for good long pull.

Write for Information, Market Letter and Reference
 Book, free.

G. S. EVERINGHAM & CO.
 No. 140 BOARD OF TRADE, CHICAGO.

RICHARD MCCARTNEY,
BROKER, PACKER HIDES,
 Stearines, Tallow, Sheepskins, Cottonseed Oil,
 Fertilizing Materials, Bones, etc.

Correspondence solicited.
 Information cheerfully given. Kansas City, Mo.

REJECTIONS.

J. D. W. CLAUSEN,
 Handler of Rejected Meats.

CONSIGNMENTS SOLICITED.

Prompt Returns and
 Satisfaction Guaranteed.
 Best of Reference Given on Application.

27 Market St., CHARLESTON, S. C.

CHICAGO BOARD OF TRADE

Send for our "Expose of Bucket Shops," Market
 Letters, Consulative Manual and Market Sta-
 tistics of 22 years, all free.

Write the Secretary of the Chicago Board of Trade as to
 our responsibility.

C. A. WHYLAND & CO.,
 Bankers and Brokers,
 Established 1880. 10 Pacific Ave., Chicago.

William H. Sterling. George W. Hunt.

STERLING & HUNT,
COMMISSION
MERCHANTS,
 Grain and Provisions,

Room 602, Royal Insurance Bldg.,
 CHICAGO, ILL.



Neutral Lard, Cottonseed Oil & Fats a Specialty.

THE NATIONAL PROVISIONER.

ANNUAL SUBSCRIPTION

Only \$4.00 for 52 Weekly Issues.

GEO. A. SHAW & CO.,

BROKERS,

Merchandise and Provisions,

28 WEST 2D STREET,

CINCINNATI, OHIO.

Cincinnati Representative of THE NATIONAL PROVISIONER.

H. SCHEIDEBERG,

(Established 1873)

Manufacturer of and Dealer in all kinds of

SAUSAGE CASINGS AND DIRECT IMPORTER OF
 English Sheep Casings
 Best Sausage Casings of Every Description.

624 W. 48th St., NEW YORK.

LEDERER BROS.,

DEALERS IN

HIDES, SKINS AND TALLOW
 667-669 HENDERSON ST.,

Jersey City, N. J.

JACOB LEVY

PAYS THE HIGHEST PRICES FOR

Fat, Suet, Calfskins, Hides, Plates & Bones,

799 First Ave., New York City.

76 KENT STREET, 192 THIRD ST.,
 Greenpoint, L. I. Mount Vernon.

Wagon calls to all parts of the city, Brooklyn, Westchester Co., and Yonkers.

HERMAN BRAND,

Dealer in

Fat, Calfskins, Suet and Bones,
 413 East 51st St., New York.

Wagons visit all parts of the city.

CHARLES CROLL,

Telephone, 2532 38th St.

Dealer in **Fat AND Calfskins,**
 Also Plate, Naval and Prime Beef,

548 W. 40th St. (Bet. 10th & 11th Aves.) NEW YORK.

A Five Dollar Safe IN THE

PRODUCE EXCHANGE VAULTS,

NEW YORK CITY.

Will hold a large number of Deeds, Mortgages, Insurance Policies, Bonds, Stocks and other valuable papers. INSPECTION INVITED.

NEW YORK MARKETS. OCEAN FREIGHTS.

The market presents no new or important features not hitherto dwelt upon. Rates to Glasgow are weak, however, a consignment of cotton oil being placed at 3s. No change in bacon rates has been made, the weakness referred to being traceable to the fact that outside steamers have been engaged, thus weakening the regular line rates. Lard in tierces for Liverpool is quoted at 18s. 9d.; canned meats and tallow, 15s. Cheese is quoted at 25s.; cotton oil, 3s.; tierced beef, 3s., and pork, per barrel, 2s. Direct pork, U. K., 3d. less for small steamers and 4½d. for large steamers, berth terms. Direct port, Continent, large steamers, berth terms, same as direct ports, U. K. Market steady for berth, active full cargoes.

LIVE CATTLE.

Weekly receipts:

	Beefs	Cows	Calves	Sheep	Hogs
Jersey City	3,668	...	1,231	10,890	12,060
Sixtieth St.	3,100	133	3,943	15,779	277
Fortieth St.	...	...	...	...	18,119
Hoboken	2,872	39	88	1,282	...
Lehigh Val. R. R.	1,471	...	...	...	2,518
Scattering	...	...	139	116	...
Totals	11,177	172	5,351	26,087	32,974
Totals last week	10,116	157	4,159	27,221	36,294

QUOTATIONS FOR BEEVES.

Good to choice	4 75 a 5 30
Medium to fair	4 45 a 4 70
Common	3 75 a 4 40
Bulls and dry cows	1 75 a 3 50
Oxen and Stags	3 00 a 4 00
Good to prime steers one year ago	4 40 a 4 75

Weekly shipments:

	Live Cattle.	Live Sheep.	Quar. Beef.
Eastmans Co.	...	3,510	...
Swift & Co.	...	1,859	...
D. H. Sherman	375	...	412
Nelson Morris	...	2,580	...
J. Shamborg & Son.	750	1,260	...
Schwarzschild & Suizberger	750	...	2,180
A. H. Eppstein & Co.	125	15	...
Pritchard, Moore & Co.	400	...	...
L. S. Dillenback	...	30	...
Total shipments	2,400	1,290	10,571
Total shipments last week	2,296	2,173	12,743
Boston " this week	2,112	2,969	10,911
Baltimore "	274	...	...
Portland "	605	400	1,004
St. John's, N. B.	825	500	...
To London	1,474	...	2,180
To Liverpool	2,863	4,729	18,064
To Glasgow	1,664	...	...
To Southampton	...	...	2,252
To Bristol	655	...	...
To Bermuda and West Indies	...	30	...
Totals to all ports	6,646	4,789	22,496
" " last week	7,813	6,609	24,919

LIVE CALVES.

Poor demand at much lower prices. No Westerns. A few barnyards on offer; sold not above \$3.50. We quote:

Live veal calves prime	a 6 50
" fair to good	5 50 a 5 75
" common to medium	3 50 a 5 50
Barnyards	2 50 a 3 50

LIVE SHEEP AND LAMBS.

The market is only fair, with a poor demand for lambs, selected fetching not more than \$6.25 at the outside. We quote:

Common to prime sheep	3 75 a 4 50
Selected	5 00 a 5 25
Medium to choice lambs	5 00 a 5 50
Selected	5 75 a 6 25

LIVE HOGS.

The markets are firmer. Shipments from Buffalo are light; Louisville the same. Heavy and medium hogs in fair demand; light hogs are at about 20c. advance. Nothing in pigs under \$4.50. Roughs have advanced a little. We quote:

Hogs, heavy	4 25 a 5 50
Hogs, light to medium	4 45 a 5 50
Pigs	4 45 a 5 50
Roughs	3 00 a 3 50

DRESSED HOGS.

The market is slowly moving up, with a trifle advance on last week's prices. All

weights in hogs fetch the same. Country dressed are firm at lower figures. We quote:	
Hogs, 100 and over	5 ½ a 5 50
Hogs, 140 and over	5 ½ a 5 50
Hogs, 120 and over	5 ½ a 5 50
Pigs, light	6 a 6 15
Pigs, medium	6 ½ a 6 15
Country dressed	6 ½ a 7

DRESSED SHEEP AND LAMBS.

The demand is the same slow one which is characteristic at this (Lent) season of the year. Receipts light. Sheep are firm, prime fetching 8½c. We quote:

Good to choice lambs	9 a 10
Common to medium lambs	8 a 9
Good to prime sheep	7 a 8 ½
Common to medium	6 ½ a 7 ½

DRESSED BEEF.

Native prices are about the same as last week, with a slightly better demand, although good beef is still scarce. Better supply of Western, with a trifling advance. We quote:

Choice Native, heavy	7 ½ a 8
" light	7 ½ a 7 ½
Common to fair Native	6 ½ a 7 ½
Choice Western, heavy	7 a 9
" light	6 ½ a 7
Good to prime Westerns	6 ½ a 7
Common to fair Texan	6 a 6 ½
Good to choice Heifers	6 a 6 ½
Common to fair Heifers	6 a 6 ½
Choice Cows	6 a 6 ½
Common to fair Cows	5 ½ a 6
Good to choice Oxen and Stags	5 ½ a 6
Common to fair Oxen and Stags	5 ½ a 6
Choice Bulls	5 ½ a 6
Common Bulls and Cows for Bologna	4 ½ a 5

DRESSED CALVES.

Market is weak, with a full cent a pound lower. No dressed barnyards on offer. We quote:

City dressed	6 a 9 ½
Country dressed, choice	7 a 9
" good	6 a 7
" common	5 a 6

PROVISIONS.

The tone of the market is very strong, with a better demand. Western markets are very firm. Smoked California hams advanced ½c. Pickled bellies also advanced ½c. We quote:

(JOBBER TRADE).

Smoked hams, 10 lbs, average	10 a 10 ½
" 12 to 14 "	a 10
" heavy	9 a 9
California hams, smoked, light	6 ½ a 7
" " heavy	6 a 6 ½
Smoked bacon, boneless	8 a 8 ½
" (rib in)	7 ½ a 8 ½
Dried beef oats	11 ½ a 12
Smoked beef tongues, per lb.	12 a 12
" shoulders	6 a 6 ½
Pickled bellies, light	6 ½ a 7
" heavy	5 ½ a 6
Fresh pork loins	7 a 7
Pork tenderloins	15 a 16

DRESSED POULTRY.

Receipts continue moderate, demand is slow and general tone easy. What call there is appears to be from jobbers, the demand from butchers being very light. This is accounted for from the fact that nearly all butchers, large and small, put more or less stock in the freezers around the holidays, when stock appeared cheap, and are now working it out. Fresh turkeys are of little account, and large and undesirable. Western chickens nearly all coarse and sell slowly at irregular prices. Fowls run too large for trade requirements; it is impossible to get more than 9c. for light and 8½c. for heavy. Capons in fair supply; choice lots steadily held. Squabs plenty. Frozen poultry arriving freely, but only a peddling outlet, and do not bring anything like top figures. We quote:

Turkeys, fancy quality	a 12
" fair to medium	10 a 11 ½
" old, Tom	9 a 10
" young, Tom	9 ½ a 12
Hens	a 18
Chickens, selected, Phila.	a 15
" good to prime, Phila.	13 a 14
" common to medium, Phila.	13 a 13
" Western, dry-picked	9 a 10
" scalped	10 a 10
" coarse	7 a 9
Fowls, prime, State, Penn. and Western	a 9
" common to good, Western	8 ½ a 8 ½
Old Cocks	a 8 ½
Ducks, choice	13 a 14
" common to medium	8 a 11
Geese, choice	8 a 10
" common to medium	6 a 8
Squabs, per doz., white	a 2 50
" small, poor	1 25 a 1 50
Capon, Phila.	15 a 16
" slips	11 a 12
" Western	12 a 14

LIVE POULTRY.

The market was steady, receipts light. Speculators are taking about everything offered, in an effort to check the decline. Fowls sold at 9c. for all grades, and chickens at 8@8½c. Roosters firm. Turkeys scarce. We quote:

Turkeys	10 a 11
" Southwestern	a 9
Chickens, local and Western, per lb.	8 a 8 ½
Ducks, per pair, Western	65 a 80
Geese, per pair, Western	1 25 a 1 50
Roosters, per lb.	5 ½ a 6
Pigeons, per pair	25 a 30

GAME.

Choice quail is in good demand at advanced prices. Grouse and partridge slow. The prices for the remainder of the list holds good as last week. We quote:

Quail, choice, per doz.	1 40 a 1 60
" small, inferior, per doz.	75 a 1 00
Partridges, undrawn, per pair	65 a 75
Grouse, per pair, pin tails	65 a 75
Venison, whole, per lb.	10 a 10
" saddles, per lb.	12 a 14
Prairiechickens	90 a 1 00
English Snipe, per doz.	1 00 a 1 50
Golden plover, per doz.	1 00 a 1 50

BUTCHERS' SUNDRIES.

Fresh Beef Tongue	45 to 60c
Calves' heads, scalded	35 to 40c a piece
Sweet breads	30 to 75c a pair
Calves' livers	30 to 60c a piece
Beef kidneys	8 to 10c a piece
Mutton kidneys	40 a piece
Livers, beef	40 to 60c a piece
Oxtails	6 to 8c a piece
Hearts, beef	11 to 15c a piece
Rolls, beef	10 to 12c a lb
Butts, beef	6 to 8c a lb
Tenderloins, beef	18 to 25c a lb
Lamb's frise	7 to 8c a pair

BUTTER.

Creamery, Western, extras, per lb.	a 19
" firsts	17 ½ a 18
" seconds	15 ½ a 16 ½
" thirds	13 a 14 ½
" State, finest	18 ½
" thirds to firsts	13 a 18
State dairy, half tubs, fresh, fancy	18
" half-tub, firsts	15 a 16 ½
" tubs, seconds	12 a 14
" Welsh tubs, finest	17 a 18
" firkins, finest	14 a 15
" firkins	12 ½ a 13
" seconds	11 a 12
" tubs or firkins, thirds	9 a 10
Western imitation creamery, extras	15 ½
" " firsts	12 ½ a 14
" " seconds	10 a 11
factory, fresh, extras	11 ½ a 12
" " firsts	10 a 10 ½
" " seconds	9 a 9 ½
" " thirds	7 a 8 ½
Rolls, fresh, per lb.	8 a 12 ½
Add 1c. per pound to the above for small selections of choice and fancy goods.	

CHEESE.

State, full cream, large, Sept. white, fancy	a 18 ½
" colored, fancy	a 19 ½
late made, large, white, prime	11 ½ a 12
" col'd, prime	11 ½ a 12
" good	

WANTED--FOR SALE--BUSINESS OPPORTUNITIES.

NOTICE.

Advertisements in this column to occupy one inch or less are inserted at the minimum rate of one dollar per insertion (one inch of eight lines or less). Fifteen cents per line for every additional line above eight lines. Double rates for headlines.

POSITIONS WANTED.

PARTNER WANTED.

A gentleman of large social and business acquaintance is seeking a partner with \$2,500 to go in to a "General Marketing Business" for out-of-town customers; no stock carried, simply commission; highest references required and given. Apply GENERAL MARKETING BUSINESS, Box 21, care THE NATIONAL PROVISIONER, 284 Pearl street.

COTTON OIL MILL SUPERINTENDENTS.

First-class man, who thoroughly understands handling of labor and machinery, wishes position as superintendent of cotton oil mill; nine years' experience; energetic and reliable; A1 references as to character and ability. Address "CARLOS," Box 412 THE NATIONAL PROVISIONER, 284 Pearl street, New York.

**ARE YOU OUT OF EMPLOYMENT?
DO YOU WANT A POSITION? TRY A
LITTLE AD. ON PAGE 45.**

CLERK WANTED.

One who understands weighing, packing and shipping of meats. State experience, and salary expected. Address "MANUFACTURER," Box 96, care THE NATIONAL PROVISIONER, 284-286 Pearl street, New York.

ENGINEER AND MACHINIST.

Expert machinist and engineer is open for engagement for sanitary erection of rendering works for garbage, bones, slaughtering offal, dead animals, etc.; remodeling plants; unsanitary plants made sanitary; all kinds of tankage and night soil economically dried; plants built and remodeled to the lowest possible labor and fuel; the best commercial results in grease, oil, tankage, ammonia, etc., obtained; references given; satisfaction guaranteed; work done by day or contract. Apply EMIL HOLTHAUS, East Ninety-fourth street, Canarsie, Brooklyn, N. Y.

WANTED--A POSITION BY A PRACTICAL packing house chemist; four years' experience in large Western establishments; highest references. Address R. O. S., Box 12, THE NATIONAL PROVISIONER, 284-286 Pearl street, New York.

TO BE DETACHED.

SUBSCRIPTION BLANK.

189.

The National Provisioner Publishing Co.,

284 & 286 PEARL STREET, NEW YORK:

Please enter my name as an Annual Subscriber for your paper, for which please find \$4 inclosed.

* SUBSCRIPTIONS.

Per Annum in the U. S. and Canada (in advance),

\$4.00

CITY AND STREET.....

Foreign Countries, except Canada (in advance),

5.00

COUNTY AND STATE.....

HELP WANTED.

PORK AND BEEF PACKING.

We want a man thoroughly familiar with pork and beef packing, slaughtering and manufacture of by-products, sufficiently literate and educated to write or furnish valuable articles on these subjects.

THE NATIONAL PROVISIONER,
284-286 Pearl St., New York.

SIDE LINE.

Salesman visiting butchers, grocers and general stores can carry a very profitable side line; pocket samples only. Address H. W. T. C., Box 111, care THE NATIONAL PROVISIONER, 284 Pearl street, New York.

SALESMAN WANTED.

WANTED—An experienced provision salesman, well acquainted with the New York jobbers; liberal salary to the proper man; best of references required. Address A. B. C., Box 163, THE NATIONAL PROVISIONER, 284-286 Pearl street, New York.

FOR SALE.

ICE MACHINES FOR SALE

For Sale.—Second Hand Refrigerating Machines with Engines: 3, 6 and 10 ton capacity.

Remington Machine Co.,
WILMINGTON, DEL.

FOR SALE.

A 12-Ton Craft Refrigerating Machine, complete.

Call or address,
J. M. & P. SCANLAN,
613 WEST 40th STREET, NEW YORK CITY.

PRESSES FOR SALE CHEAP.

Three Johnson Filter Presses, 36 Plates, 18 inches diameter, and One Filter Press, 20 Plates, 18 inches square. Will stand 1,000 pounds to the square inch. Also One No. 3 Oleo Press.

JOSEPH LISTER,
1158-1160 Elston Avenue, Chicago.

BUTCHER'S MARKET WAGON.—ANY one in want of a nearly new butcher's market wagon, carrying 35 cwt. (three-spring top wagon), can hear of one, price \$45, by applying to S. W., Box 54, care THE NATIONAL PROVISIONER, 284-286 Pearl street New York.

NATIONAL CASH REGISTER FOR sale; nearly new. GERZOG & ROSENBERG, 470 Grand street, New York City.

PARTNERSHIP.

Western packer wants to make partnership arrangements with Eastern party to kill hogs and cattle for Eastern markets. Address "K," Box 152, THE NATIONAL PROVISIONER, 284-286 Pearl street, New York.

FOR RENT.

A slaughter house on Johnson avenue, Brooklyn, complete for killing hogs or other live stock, for rent cheap. Apply for particulars at 195 Hamburg avenue, Brooklyn.

FOR RENT.

Only \$4 a day; new pork and beef house; live stock prices 40 cents under Chicago; shipping rates equal Chicago. Address "S," care of THE NATIONAL PROVISIONER, 284-286 Pearl street, New York.

Live Stock and General Provision Agents,
EDWD. HEYMANS & SON, PARIS, France, 19 Rue Doranger.
(Estd 1872.) Teleggr., Heymansius (A B C Code.)

WE ARE SHORT OF COPIES OF THE NATIONAL PROVISIONER OF THE DATES OF JAN. 25, 1896, AND JAN. 9, 1897. WE WOULD BE OBLIGED IF OUR FRIENDS WOULD SEND US COPIES OF THOSE DATES, AND WE WILL CREDIT THEIR SUBSCRIPTION ACCOUNT ACCORDINGLY.

SAVE YOUR PROVISIONERS!

THIS PAPER WILL BE VALUABLE
TO YOU IN YEARS. SAVE IT! WE
WILL SELL YOU A BINDER HOLD-
ING 26 NUMBERS, TOGETHER WITH
A PUNCH FOR \$1.50.

SEND FOR A BINDER!

BINDERS WITHOUT PUNCHES, \$1.00.

THE NATIONAL PROVISIONER,

284-286 PEARL STREET, NEW YORK.

11 RIALTO BUILDING, CHICAGO.

BUTCHERS' FAT.

Rough butcher's fat.....	1 1/4
Inferior.....	1
Suet, fresh and heavy.....	2 1/4
Shop bones (per cwt.).....	20

SAUSAGE CASINGS.

Sheep, imported, wide, per bundle.....	64
" " per kg., 80 bundles.....	32 00
" medium, per bale.....	50
" narrow, "	34
" domestic, "	40
Hog, American, lbs. per lb.....	12
" " bbls., per lb.....	13
" " 1/2 bbls., per lb.....	14
" " bags, per lb.....	14
Beef guts, rounds, per set (100 feet), f.o.b. N. Y.	15
" " per lb.....	Chicago 14
" " bags, per lb.....	3
" bungs, piece, f.o.b. N. Y.	6
" " Chicago.....	5 1/2
" " per lb.....	4
" middles, per set (51/60 ft.), f.o.b. N. Y.	38
" " Chicago.....	38
" " per lb.....	6 1/2 a 7
" weanards, per 1,000, No. 1's.....	4 1/4
" " No. 2's.....	2 a 3
Russian rings.....	12 a 20

SPICES.

Pepper, Sing. Black.....	7 9
" White.....	11 12
" Red Zanzibar.....	15
" Shot.....	8
Allspice.....	6 1/2 9
Coriander.....	5 7
Gloves.....	9 10 1/2
Mace.....	45 60
Nutmegs, 110s.....	48 50
Ginger, Jamaica.....	23 26
" African.....	6 8
Sage Leaf.....	10 12
" Rubbed.....	12
Marjoram.....	25

SALTPETRE.

Crude.....	3 1/2 a 4
Refined—Granulated.....	4 1/2 a 5
Crystals.....	4 1/2 a 5 1/2
Powdered.....	8 a 8 1/2

The Fertilizer Market.**NEW YORK MARKET.**

The market in general is quiet and devoid of any special feature, but there is a moderate inquiry reported for most descriptions. Leading ammoniates are rather quiet and dried blood shows a slightly easier tone. Potash salts, however, are in somewhat better demand, as dealers are anxious to place orders before contract prices are advanced. Nitrate of soda continues quiet, but offerings being light values are firm. We quote:

Ground bone, fine average, per ton.....	\$19 00 a 21 00
Kelserit, future shipments.....	7 25 a 7 50
Nitrate of soda, spot.....	1 90 a 1 92 1/2
Double manure salt (48 a 49 per cent, less than 2 1/2 per cent, chlorine), to arrive, per lb. (basis 48 per cent).....	1 01 a 1 01 1/2
The same, spot.....	1 02 a 1 03
High grade manure salt (90 a 95 per cent, sulphate potash), to arrive (basis 90 per cent).....	1 96 1/2 a 2 00 1/2
Bone black, spent, per ton.....	16 00 a 16 50
Azotine, per unit.....	1 75 a 1 80
Fish scrap, wet (at factory), f. o. b.	8 50 a 9 00
" dry.....	19 00 a 20 00
Sulphate ammonia, gas, per 100 lbs.....	2 27 1/2 a 2 32 1/2
Sulphate ammonia, bone, per 100 lbs.....	2 15 a 2 22 1/2
South Carolina phosphate rock, ground, per 2,000 lbs.....	5 00 a 5 50
South Carolina phosphate rock, undried, f. o. b. Ashley River, per 2,240 lbs.....	a 3 00
The same, dried.....	3 25 a 3 45

BALTIMORE FERTILIZER MARKET.

The market for ammoniates has been quiet and irregular. We quote sales of 9 and 20 tankage at 1.57 1/2 and 10, Baltimore; 9 and 20 tankage at 1.55 and 10, Richmond; ground blood at 1.60 per unit, Baltimore; azotine at 1.62 1/2, Baltimore. Prices f. o. b. Chicago—Blood, 1.40 per unit; concentrated tankage, 1.25 per unit; hoof meal, 1.25 per unit; tankage, 10 and 10, 13.00; 9 1/2 and 5, 12.00; 8 1/2 and 20, 11.50. Prices f. o. b. Kansas City—9 and 20 tankage, 12.00; ground blood, 1.35 per unit.

THE GLUE MARKET.

There is a very-moderate demand. Hide stock glue firm and foot grades in large supply. Foreign quotations show a further tendency to advance, with but little doing.

A Extra, white.....	22c
1 Extra " "	18c
1 " "	16c
1 X " "	14c

CHICAGO LIVE STOCK.**RECEIPTS FOR WEEK ENDING MARCH 20.**

	Cattle.	Calves.	Hogs.	Sheep.
March 15.....	15,833	122	27,601	17,736
" 16.....	2,311	1,357	17,347	14,142
" 17.....	11,786	401	27,341	13,454
" 18.....	7,697	231	23,952	9,648
" 19.....	3,175	287	19,627	10,000
" 20.....	391	10	7,065	2,082
" 22.....	17,000	100	28,000	18,000

Total 41,005 2,358 122,933 67,062
Previous week 46,072 2,270 124,389 57,416
Same week, '96 55,563 2,786 167,604 65,414
" '95 38,158 3,131 153,861 57,218

The 122,933 hogs received here last week averaged 228 lb., the lightest since the week ending Oct. 26, 1895. Average the previous week 234 lb., a month ago 239 lb., two months ago 252 lb., and a year ago 250 lb. The average this month will be about 231 lb., the lightest month since October, 1895.

CHEMICALS AND SOAP MAKERS' SUPPLIES.**SPICES.**

74 per cent. caustic soda, 2c. for 60 per cent.; 76 per cent. caustic soda, 2.15c. for 60 per cent.; 60 per cent. caustic soda, 2.25c. lb.; 98 per cent. powdered caustic soda, 3/4c. lb.; 65c. per 100 lb.; carbonate of potash, 5/4c. lb.; caustic potash, 5 1/2c. lb.; borax, 5/4c. lb.; talc, 1 1/4c. lb.; Ceylon cocoanut oil, 6@6 1/4c. lb.; Ceylon cocoanut oil, 5 1/2c. lb.; palm oil, 4 1/4c. lb.; palm kernel oil, 5c. lb.; yellow olive oil, 5 1/2c. gallon; green olive oil, 5 1/2c. gallon; green olive oil foots, 4 1/4c. lb.; cottonseed soap stock, 1c. lb.; rosin, \$2@2.75 per 280 lb.	
--	--

CHICAGO MARKETS.**LARDS.**

Prime Steam.....	4 1/2
Neutral.....	5 1/2
Compound.....	4

STEARINES.

Oleo-stearines.....	4 1/2
---------------------	-------

OILS.

Lard oil, Extra.....	34
" No. 1.....	31
" No. 1.....	26
" No. 2.....	24
Oleo oil, "Extra".....	5 1/2
Neatsfoot Oil, Pure.....	45
" Extra.....	35
" No. 1.....	31

TALLOWS.

Tallow Oil.....	32
Packers' Prime.....	3 1/2
No. 2.....	3
Edible Tallow....	3 1/2

GREASES.

Brown.....	2 1/2
Yellow.....	2 1/2
White.....	2 1/2
Bone.....	2 1/2

COTTONSEED OIL.

P. S. Y., in tanks.....	22
Crude, "	19
Butter oil, barrels.....	27

FERTILIZER MARKET.

Dried blood, 16 to 17 units.....	1.45 Ohgo, f. o. b.
Hoof meal, per unit.....	1.40 "
Concent tankage, 14 to 15 p. c. p. unit, 1.90 a 1.95 "	"
Unground tankage, 10 to 11 p. c. per ton, 14.00 "	"
Unground tankage, 9 to 10 p. c. per ton, 13.00 "	"
Unground tankage, 8 & 9 p. c. per ton, 11.50 "	"
Unground tankage, 7 & 8 p. c. per ton, 10.00 "	"
Unground tankage, 6 & 7 p. c. per ton, 9.00 "	"
Bone meal, per ton.....	18.00 "
Bones, rough, "packers".....	16.50 "
Steamed bone meal per ton.....	15.50 "
Ground tankage, \$1 per ton extra.	

HORNS, HOOFs AND BONES.

Horns No. 1.....	\$170 per ton 65-70 lbs. average
Hoofs.....	\$20.70 per ton
Round Shin Bones.....	\$47.00 "
Flat Shin Bones.....	\$37.50 "
Thigh Bones.....	\$90 per ton, 90-100 lbs. average

PACKERS' SUNDRIES.

Pork loins.....	5 1/2
Pocket Pieces.....	3 1/2
Tenderloins.....	11 1/2
Spare ribs.....	4
Trimmings.....	3 1/2
Ham Trimmings.....	3
California Butts.....	4 1/2
Boston Butts.....	4 1/2
Tall Bones.....	2 1/2
Pigs' Tails.....	2
Hocks.....	3
Cheek Meat.....	3
Skinned Shoulders.....	3
Dry Salt Spare Ribs.....	4 1/2

CURING MATERIALS.

Sugar in New Orleans is quoted as follows:	
Pure open kettle.....	1 1/2 a 2 1/2
White, clarified.....	3 1/2
Plantation granulated.....	3 1/2

COOPERAGE.

Barrels.....	75c
Lard tierces.....	90 a 92 1/2

ROTTERDAM OLEO REPORT.

The following sales were cabled for the week ending March 26, 1897.

Mar. 16. Helmer sold at 36 florins.
 " 16. Morris Extra (30/400 tcs.) sold at 33 florins.
 " 16. Goldband sold at 33 florins.
 " 16. Monarch sold at 32 florins.
 " 19. Eastman Extra sold at 37 florins.
 " 20. Harrison (50/100 tcs.) sold at 39 florins.
 " 20. Monarch sold at 35 florins.
 " 26. Girard sold at 31 florins.
 " 26. Brilliant Extra sold at 36 florins.
 Sales for the week, 4,100 tcs.
 Mar. 20. Stock in first hands, 3,300 tcs.
 Stock afloat, Mar. 20.—Per smr. Ohio from Balto. March 6, due March 20, 1,810 tcs.; per smr. Werkendam from New York, March 17, due March 22, 2,305 tcs.; per smr. Obdam from New York, March 21, due April 1, 1997—but 52,000 tcs.; margarine, 18,000 tcs.

Exports of Oleo Oil to Rotterdam.

Mar. 22. Per Smr. Urbino—Morris, 660 ; Swift, 38. Mar. 22. Per Smr. Obdam—Eastmans, 200 ; S. & S., 252 ; Armour, 65 ; Swift, 300 ; Hammond, 75 ; Undahy, 65.

Neutral Lard.

Mar. 22. Per Smr. Urbino—Morris, 145 ; Swift, 560. Mar. 22. Per Smr. Obdam—Swift, 700.

A CALF'S COSTLY MEAL.

Treasurer Morgan, in Washington, received a little wooden box from Texas recently containing a wad of what appeared to be fragments of United States bills. Later in the day a letter from J. Blacingame of a small town near Galveston, Tex., arrived at the Treasury Department, which explained the contents of the box. The wad of green paper is all that is left of \$210 owned by Mr. Blacingame, which he rescued from the stomach of a yearling calf. It seems that the Texan recently sold a herd of cattle, for which he received \$470 in bills, but the bills were in such a position that the ends stuck beyond the edge of the book. Blacingame carelessly threw his coat on the ground in a cow lot, and a yearling coming along saw the green bills and proceeded to devour them. The calf was shortly killed and from its stomach was taken a mass of chewed bills, stained and discolored. The fragments were boxed up and sent to the redemption division of the Treasury Department. Accordingly \$210 in crisp, new bank notes were sent to the cattle dealer to replace the money masticated by his calf.

"This butter seems strong," said the young husband, at their first breakfast at home. "Yes," she answered; "I talked to the market man about that, and he said it was economy in the end never to buy weak butter. He said that even though this might cost a little more, people could get along with less of it, and it would last longer."—Washington Star.

BUTCHERS.

The following Mortgages on Butchers' Fixtures, Bills of Sale, etc., have been recorded during the past week up to Saturday, March 20, 1897. They are a reprint of our Advance Sheet, sent out to houses on March 20, who subscribe to same.

NEW YORK CITY.

Cohen, Bernardt, 119 East 90th and 709 Amsterdam Ave.; to Nat'l L. Assn \$150
Grossman, Abraham, 106 Goerck; to H. Brand..... 65
Lev, Isaac, 41 Lewis; to S. S. Baar.... 60
Polzella, Michele, 512 Courtland Ave.; to Sabbatino Polzella.... 300
Solomon, Morris, 48 Suffolk; to M. Hollander (Ice Wagons, etc.).... 800
Totchek & Schwerin, 1592 2d Ave.; to M. Durier.... 150

Bills of Sale.

Conway, Michael F., 602 11th Ave.; to Julia Conway.... 250
Mathes, Charlotte, 132 Pitt; to Hy. Mathes, Jr.... 400

KINGS COUNTY.

Benninger, H. O., 1042 5th Ave.; to Eastman's Co.... 600
Carlstrand, Mary, 632 Fulton; to C. Carlstrand.... 100
Edelstein, L., Maspeth, L. I.; to S. & B. Strauss.... 450
Guderian, H., 89 Ralph Ave.; to A. Heckelman.... 365
Heron, W. B., 239 Reid Ave.; to J. Bulk, Jr.... 100
Loughran, D. & M., 522 6th Ave.; to H. Hamill.... 1,000
Mott, A. H., 997 Myrtle Ave.; to M. Levin.... 50

Bills of Sale.

Frese, G., 46 Cooper Ave.; to J. L. Mirth.... 220
Hamill, H., 522 6th Ave.; to D. & M. Loughran.... Nom.
Morrison, D. A., 1057 Broadway; to C. Youngs.... 100
Maass, Eliz., 177 Greene; to C. H. Stock.... 200
Schneider, C., 129 23d; to H. J. Bahns.... 900

HUDSON COUNTY.

Flesch, Joseph and Annie; to L. Spitz (Butcher and Grocery Store).... 200

TELEPHONE, 299 FRANKLIN.

JAMES H. O'BRIEN,**SCALE MAKER AND REPAIRER.**

Manufacturer of Over-Head Scales and Tracks for Weighing and Handling all kinds of Merchandise. Dealer in New and Second-Hand Scales. Scales Tested and Sealed to U. S. Standard.

75 NEW CHAMBERS ST. NEW YORK.

**A. E. MACADAM,
BUTCHERS' ROLL AND FLAT PAPER**

Paper Bags, Twines, Butter Dishes and Boxes of every description.

265 GREENE AVE., BROOKLYN.
TELEPHONE 226 BEDFORD.

D. OETJEN,
WHOLESALE DEALER IN
**SMOKED AND SALT FISH
AND PROVISIONS.**
379 FLUSHING AVENUE, BROOKLYN.**ANGERER & GRUETZNER,**
Successors to O. VELLE,
Manufacturers of
**BUTCHERS' FIXTURES
AND ICE HOUSES.**
Grocery and Delicatessen Fixtures a Specialty.
Telephone Call, 659 W'nsburgh.
318-322 FLUSHING AVE.,
Near Clason Ave., BROOKLYN, N. Y.
Short Distance from Wallabout Market.**GROCERS.**

The following Mortgages on Grocers' Fixtures, Bills of Sale, etc., have been recorded during the past week up to Saturday, March 20, 1897. They are a reprint of our Advance Sheet, sent out to houses on March 20, who subscribe to same.

NEW YORK CITY.

Breivogel, Philip, 50 Avenue A; to J. Beck.... 500
Congorsky, S. & A., 72 Eldridge; to H. Danzig.... 60
Firth, A. W., 130th and Lenox Ave.; to American Store Fixture Co.... 1,335
Gottesman & Feintuck, 122 Essex; to S. Levin.... 75
Gross & Mugge, 46 Avenue B; to G. Behnke.... 1,200
Josephy, A., 2018 7th Ave.; to J. Nadelmann.... 450
Koellner, F. W., 335 Amsterdam Ave.; to F. Bugge.... 800
Krudner, A. & R., 796 Amsterdam Ave.; to C. L. Schluter.... 2,000
Moses, G., 1703 Madison Ave.; to T. Dahnt's Sons (Butter Store).... 38
Muller, H. C., 2281 7th Ave.; to F. Rust.... 1,000
Nichols, C. E.; to G. L. Sourman (Butter Store).... 150
Plate, Jacob, 420 and 615 Mott Ave.; to H. Obersheimer.... 2,000
Tobkin, D. M. & L., 225 Rivington and 43 Clinton; to J. Katzman.... 120
Vanderbilt Hotel Co.; to Beinecke & Co.... 5,000
Whiteside, Wm., 216 East 8th and 654 Columbus Ave.; to M. Lehman.... 100

Bills of Sale.

Durando, Nicolo, 357 East 113th; to M. d'Angelo.... 600
Freeburn, J. J., 796 10th Ave.; to C. Raab (Restaurant).... 1
Goldberg, Moses, 170 Suffolk; to Rose Goldberg.... 400
Hertz, Julia, 32 Clinton; to Samuel Hertz.... 1
Levin, Hyman, 76 Orchard; to J. Weissethr.... 553
Messero, Samuel, 115 Mulberry; to A. Russo (Restaurant).... 200
Schwarz, Jake, 208 Delancey; to J. Brogan.... 100

NOTE.—The above information will be furnished on a special advance sheet one week ahead of this publication to all those who may desire to order it. Price, \$2.50 per year, 52 weekly sheets.

OTTO BARTELS,

WHOLESALE DEALER IN

**PROVISIONS, FISH
AND SALT,**
7 WALLABOUT MARKET,Telephone 580 Williamsburgh. BROOKLYN.
The well-known Model Boiled Hams our Specialty.**CHARLES MILLER,**
MANUFACTURER OF
BUTCHERS' FIXTURES

BOXES, TOOLS, ETC.

Ice Houses for all purposes.
Fish and Oyster Markets fitted up.
All Orders Promptly Attended to.
505 West 45th St., New York.

**Good Meat Alone**

is not enough. The butcher who wishes to build up a big trade must have a nicely furnished shop. The man who has

An Up-to-date Shop

will get the up-to-date trade. Customers like to see attractive refrigerators, modern machinery and handy tools.

All Butcher Fixtures

of the latest and best make, as well as refrigerators and tools, are manufactured by

T. FARRELL,328 West Forty-First Street,
NEW YORK CITY.**GUSTAV GOLDMAN**MANUFACTURER AND DEALER IN
ALL CELEBRATED BRANDS OF**BOLOGNAS AND SAUSAGES**

Packer of Tongues, Smoked and Pickled Beef.

No. 314 EAST HOUSTON ST., NEW YORK

THE NATIONAL PROVISIONER.

ANNUAL SUBSCRIPTION

ONLY \$4.00 FOR 52 WEEKLY ISSUES.

We do not claim to make ALL the

**BEST ICE HOUSES AND
FIXTURES**
BUT THOSE WE MAKE ARE A NO. 1.

We make them of the best material and employ only the best mechanics.

Our Ice Houses often Stand at 36°!!!

E. V. ALFORD,278 Flushing Ave., Cor. Grand Ave.,
BROOKLYN.

TELEPHONE, 1130, WILLIAMSBURGH.

HICKORY SKEWERS, TOOLS, SCALES, BASKETS, ETC.

March 27, 1897.

A TWO-CENT MISTAKE



don't amount to much in any business, but the sticking point is that a clerk is just as liable to make a mistake of \$2.00 as he is of two cents, and a few mistakes like this would pay for enough of Allison's Coupon Books to last a year or more. With these books mistakes are impossible.

When A Man Wants Credit

for \$10.00 give him a \$10.00 Allison Coupon Book, charge him with this amount and there you are. No trouble at all. If he buys a plug of tobacco for ten cents, tear off a ten-cent coupon—that's all, and so on for all his purchases up to the limit of the book. NO PASS BOOK, NO CHARGING, NO TIME LOST, NO DISPUTES, NO ERRORS. There are other Coupon Books, of course, but why not

have the best—Allison's. Let us send you a cancelled sample free. For sale by the jobbing trade or by

ALLISON COUPON COMPANY, Indianapolis, Ind.

J. G. GLOVER, Architect.



Refrigerated Buildings A SPECIALTY. PLANS AND SPECIFICATIONS

Furnished in shape to obtain competitive bids, thus saving time and money.

Correspondence Invited.

186 Remsen St., BROOKLYN, N. Y.



WM. R. PERRIN & CO.
CHICAGO,
ARCHITECTS
AND
BUILDERS
OF
PACKING
HOUSES.

J. T. NICHOLSON & SON,

Architects and Builders.

ABATTOIRS, PACKING HOUSES,
COLD STORAGE HOUSES.

Suite 143 and 144,
185 DEARBORN STREET,
CHICAGO, ILL.

CORRESPONDENCE SOLICITED.

A few of the Houses Designed and Built by us:

Anglo-American Provision Co., Chicago.
" " Atchison, Kan.
South St. Paul Packing Co. (2 houses), St. Paul, Minn.
Sioux City Stock Yards Co. (2 houses).
Omaha Stock Yard Co. (2 houses).
Smith's House, Atchison, Kan.
Union Stock Yards Co., St. Joseph, Mo.
Tremont Stock Yards Co., Tremont, Neb.
Clarendon Abattoir Co., Baltimore.
Indianapolis Abattoir Co., Indianapolis, Ind.
Pittsburg & Aliphatic Abattoir Co., Pittsburgh, Pa.
Rodeo Stock Yards Co., San Francisco, Cal. (3 houses).
St. Louis Union Abattoir, St. Louis, Mo.
Eickel & Well P'k'g and Prov. Co., Evansville, Ind.

ESTABLISHED 1874.

M. ZIMMERMANN,
MANUFACTURER AND DEALER IN ALL KINDS OF
Kosher Provisions
LARGEST PLACE OF ITS KIND IN THIS CITY.
318-320 E. Houston St., NEW YORK

Ads In This Paper Bring Results.

Directory and Handbook

OF THE MEAT AND PROVISION INDUSTRIES

Of the United States and Canada.

2000 Names. 440 Pages

Half tone paper, illustrated, well bound in cloth.

Secure a Copy.

7000

PRICE, \$10.

PART I.

7000 Names of Pork and Beef Packers.
Wholesale Butchers & Slaughterers.
Wholesale Dealers in Meats.
Wholesale Provision Dealers.
Lard Renderers and Refiners.
Oleomargarine and Butterine Mfrs.
Tallow Renderers and Dealers.
Provision Brokers & Com. Merchants.
Cottonseed Oil Mfrs. and Refiners.
Sausage Manufacturers.
Fertilizer Manufacturers & Dealers.
Soap and Candle Makers.

PART II.

- I.—Illustrated Articles showing all cuts of meats for domestic and export markets. The latest methods of killing, chilling, curing and making brines. Tests, tables, export weights, boxed meats, tank, lard, sausage departments.
- II.—Receipts for Sausage Makers.
- III.—Cottonseed Oil Manufacture and Appliances. Latest Machinery and its Use.
- IV.—Historical and Statistical Survey of the Trade.

The National Provisioner Publishing Co.

284-286 Pearl Street, New York.
11 Rialto Bldg., Chicago, Ill.

OUR YELLOW BOOK.
THE MANUFACTURE OF COTTON-
SEED OIL
and Allied Products.
Price, \$3.

See circular elsewhere in this issue.

\$1—ONE DOLLAR.

Send us \$1, and we will send to you one copy of Redwood's Theoretical and Practical Ammonia Refrigeration. 146 pages, cloth bound.

The National Provisioner Publishing Co.,

NEW YORK: 284-286 Pearl St CHICAGO: 11 Rialto Building.

Franklin House DETROIT. MICH.

Cor Bates and Larned Mfrs. Very central. Elevator service, steam heat, electric lights, tile floors, etc. Rates \$1.50 to \$2 per day. H. H. JAMES & SONS, Proprs.

ESTABLISHED 1831.

Foster DeBevoise,

(Successor to WM. E. CLARK & BRO.)



184-186 Elizabeth Street, New York.

(TELEPHONE 292 SPRING.)

Provisions, Cooperage, Etc.

CONSIGNMENTS SOLICITED.



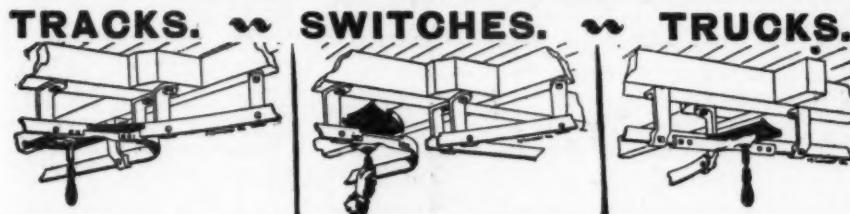
THE BEST AND ONLY RELIABLE COVER FASTERER FOR
PAILS, TUBS AND BOXES.

USED AND ENDORSED EVERYWHERE BY

LARD PACKERS AND SHIPPERS.

ACME FLEXIBLE CLASP CO. SOLE MANUFACTURERS.

Clark and 15th Sts., CHICAGO, ILL.



CORRESPONDENCE SOLICITED.
REFER TO ALL FORMER CUSTOMERS. J. DUNCAN & CO., 94 Blackstone St., Boston, Mass.

PACKERS—
TAKE NOTICE.

SELF-ACTING BEEF SWITCHES (Patented).

Reducing Labor.
Safer in Construction.

Strongest and the Cheapest
and Best in the Market.
No Additional Expense in Handling.

For particulars and prices apply F. J. KOBBLISH, 130 W. 61st Street, New York City.



NEW JERSEY FOUNDRY & MACHINE CO.

TELEPHONE
1272 CORTLANDT.

Overhead Trackage System Refrigerators, Etc.

26 Cortlandt Street,
NEW YORK.

CORRESPONDENCE
SOLICITED.

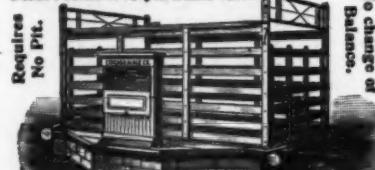
Put It On Page 45. Quick Results.

SEE COUPON ON PAGE 26.

10 oz. to 1 lb.
U. S. Standard

Gold, Silver or Currency buys the
best scales made at lowest prices.
Don't be humbugged by Agents of
a Trust, Buy of the Manufacturers.

Steel Frame & Royal Scale Rack



Requires
No Pit.
Hundreds of Specialties at less than Wholesale prices, viz:
Sewing Machines, Bicycles, Organs, pianos, Cedar Mills,
Carriages, Carts, Buggies, Harness, Safes, Box Mills,
Letter Presses, Jack Swords, Trucks, Axles, Day Carts,
Presses, Mills, Coffee Mills, Forces, Lathe, Dump Carts,
Lawn Mowers, Coffee Mills, Engines, Tools, Wire Fence,
Corn Shellers, Cland Carts, Boilers, Watches, Clothing &c.
Fanning Mills, Crow Bars, Lathes, Watches, Clothing &c.
Hay, Stock, Elevator, Railroad, Platfrom and Constar SCALERS.
Send for free Catalogues and prices to our offices.
151 S. Jefferson St. CHICAGO SCALE CO., Chicago, Ill.

GEORGE W. PRICE

has commenced this season's manufacture of

Hill's Celebrated Trenton Sausage.

PRICE'S PREPARED HAM, SAUSAGE,
BOLOGNA, FRANKFURTS, SCRAPPLE
AND BREAKFAST BACON.
THIS SEASON'S FRESH PORK, SUGAR-
CURED HAMS, BEEF TONGUES, HONE-
LESS HAM, DRIED BEEF, LIVER
PUDDINGS.

I am prepared to fill all orders promptly. No adulterations used in any of our products. Patronage solicited.

GEO. W. PRICE,
Stalls 43 & 44, City Market, TRENTON, N.J.
Factory, 21 & 28 Chambers Street.

THE LEADING PACKERS IN THIS
COUNTRY, IN GREAT BRITAIN AND
EUROPE SUBSCRIBE TO THE NA-
TIONAL PROVISIONER. IT IS NOT
NECESSARY TO ASK WHY.

OUR YELLOW BOOK
SEE COUPON PAGE 41.

HAMBURG-AMERICAN LINE

THE ONLY LINE maintaining a regular service to the European Continent with TWIN SCREW STEAMERS. New York-Plymouth (London)-Cherbourg, (Paris)-Hamburg holding the record for fastest time on this route.

First Bismarck, April 8, 10 a.m.	Columbia, June 10, 7 a.m.
Normannia, April 20, 10 a.m.	Aug. Victoria, June 17, 7 a.m.
Columbia, May 13, 7 a.m.	First Bismarck, June 24, 10 a.m.
First Bismarck, May 27, 10 a.m.	Normannia, July 1, 10 a.m.

Prussia, March 27, 1 p.m. Prussia, June 5, 9 a.m.

Pennell's, April 3, 7 a.m. Phoenix, June 12, 3 p.m.

Patria, April 10, 11 a.m. Persia, June 19, 9:30 a.m.

Prussia, April 17, 7 a.m. Andalusia, June 26, 3 p.m.

Phoenix, April 24, 11:30 a.m. Palatia, July 3, 6 a.m.

Persia, May 1, 7 a.m. Pennell's, July 10, 1:30 p.m.

Andalusia, May 8, 10 a.m. Patria, July 17, 8 a.m.

Palatia, May 15, 4 p.m. Prussia, July 24, 2 p.m.

Pennell's, May 22, 10 a.m. Phoenix, July 31, 7:30 a.m.

Patria, May 29, 4 p.m.

REGULAR SERVICE between NEW YORK and HAMBURG direct.

By new Twin Screw mail steamers and other steamers.

Palatia, March 27, 1 p.m. Prussia, June 5, 9 a.m.

Pennell's, April 3, 7 a.m. Phoenix, June 12, 3 p.m.

Patria, April 10, 11 a.m. Persia, June 19, 9:30 a.m.

Prussia, April 17, 7 a.m. Andalusia, June 26, 3 p.m.

Phoenix, April 24, 11:30 a.m. Palatia, July 3, 6 a.m.

Persia, May 1, 7 a.m. Pennell's, July 10, 1:30 p.m.

Andalusia, May 8, 10 a.m. Patria, July 17, 8 a.m.

Palatia, May 15, 4 p.m. Prussia, July 24, 2 p.m.

Pennell's, May 22, 10 a.m. Phoenix, July 31, 7:30 a.m.

Patria, May 29, 4 p.m.

BALTIC LINE TO CHRISTIANA, COPENHAGEN and STETTIN.

Hamburg-American Line,
37 Broadway, New York, Cor. La Salle and Randolph
Sts., Chicago.



We make WAGONS for Butchers and Packers.
Our Catalogue G, will interest you. Send for it.
GET OUR PRICES.



STEVENSON'S DOOR

FASTENS
AND
TIGHTENS
AUTOMATICALLY

A perfect seal at bottom, top and corners, where others always fail.

Cannot stick, leak nor wear out.

Works from either side, gives clear door-way, includes lock.

STEVENSON CO., LTD.

BUILDERS' MILLWORK
1603-15 W. 3d ST.
CHESTER, PA.

The Only Really Air-Tight
Door Made.

Does not become leaky with use. Aside from all its other merits, its easy opening and closing is enough and will save its cost in a few weeks in any busy meat market or storage house. Special doors to fit tight on flush floor, without wear; for overhead track with trap complete, and for old doorways. Freezer Doors that will not freeze fast. Circular with diagrams, photo-illustrations, and list of regular sizes.

March 27, 1897.

HAND-BOOK AND DIRECTORY FOR PORK AND BEEF PACKERS.

The Latest and Most Improved Methods of Successful Packers, Foremen and Superintendents.

Pork Packing and Curing from A to Z in all the Departments of the Packing-House.—A Book for Life.

Live Hogs.

Which is the Most Profitable and Satisfaction to the Packer?—A few Hints Regarding the Handling of Hogs in Hot Weather.—Unloading and Weighing; Hints to Buyers.—Luggages.—Inspection.—Figures for the Country Packer.—To Avoid Sour Meats.—Cost of Handling Hogs in Yards.—Feeding.—Hog Killing.

Driving to Pens.—The Shackler.—Necessity of a Foreman.—Stripping Small Guts.—How to Avoid Destroying Them.—Scarring Guts.—To Avoid Destroying Large Guts.—Expense of Killing.—Men Required for Killing Gang.—The Work of Each Man on the Killing Gang.—Avoid Shoulder Sticking.—Temperature of Water in Scalding Tub.—Hog Scrapers.—The Scientific Portion of Hog Slaughtering.—The Expert Gutter.—The Shaver.—The Gut Bench.—Casings and Guts.—"Dark" and "Off" Color Lard Due to Careless Washing of Guts.—Do not Let Your Fat Go into the Sewer.—Hog Stomachs.—Leaf Lard.—Tongues—How to Treat Them.—Temperature.—Dry Shaving.—Proper Handling, and After Effects of Poor Handling.—Shrinkage from Live to Dressed Weights.—Hair, Bristles, etc.—Carelessness of Killing Gang.—How to Avoid Losses.—When Water Should Be Used.

Pepsin Manufacture.

What Is Pepsin.—Method of Preparation.—Straining and Filtering of Liquid.—Crude Pepsin.—Purified Pepsin.—General Treatment and Drying Process.

The Chill Room.

When to Put In.—Temperature of Room and Hogs.—Reduction of Temperature.—Lowest Temperature Permissible.—How Long to Hang Therein.—Watching the Temperatures.—Proper Insulation of Chillrooms.—Artificial Refrigeration Prevents Sour Meats.—Where to Place Brine Tanks.—How to Run the Pipes.—Necessity of Reliable Men in Taking Temperatures.—Closest Attention Necessary.—Necessity of Competent Men.—Advantages of Thorough Mechanics.—Who Should Attend to Insulation.

Cutting of Hogs.

When to Commence Cutting.—Size of Gang.—The Cutting Gang.—The Chopper.—Instruments in Use.—Side Meat Trimmers.—Ribbers.—Backbone Sawers.—Shoulder Trimmers.—Blade Pullers.—Where to Shop the Backbone Out.—Other Men and Boys Necessary.—Cost of Cutting.—Domestic Cuts.—Export Cuts.—Loins.—Wrapping.—Cold Storage.—Treatment During Summer Season.—No Lean Meat to Tanks.—Spareribs.—Backbones.—Neckbones, Hocks; What to do With Them.—Short-rib Middle (Illustrated); How to Cut.—English Short-rib Middle (Illustrated and explained).—Long Clear Middles (Illustrated and explained).—Extra Long Clear Middles (Illustrated and explained).—Long-rib Middle (Illustrated and explained).—Cumbrian Middles (Illustrated and explained).—Yorksire Middles (Illustrated and explained).—Staffordshire Middles (Illustrated and explained).—Dublin Middles.—Stretford Middles.—Birmingham Middles (Illustrated and explained).—Short Clear Sides (Illustrated and explained).—Extra Short, Clear Sides (Illustrated and explained).—Wiltshire Sides (Illustrated and explained).—South Staffordshire Sides (Illustrated and explained).—Clear Belly (Illustrated and explained).—Hib Belly (Illustrated and explained).—Welsh Sides.—Irish-cut Sides.—South Staffordshire Sides.—Clear Bellies, English.—Rib Bellies.—Pickled Clear Bellies.—Short Clear Backs, English (Illustrated).—Short Fat Backs (Illustrated).—Long Fat Backs (Illustrated).—Pickled Clear Backs.—Short-cut Hams (Illustrated).—Long-cut Hams (Illustrated).—Stafford Hams (Illustrated).—South Stafford Hams.—Manchester Hams.—Skinned Hams.—California Hams (Illustrated).—Rolled Hams, Bone-

less (Illustrated).—Boston Shoulders (Illustrated).—Square Shoulders.—New York Shoulders (Illustrated).—Regular Shoulders (Illustrated).—Skinned Shoulders.—Rolled Shoulders, Boneless (Illustrated).—Mess Pork (Illustrated).—Prime Mess Pork (Illustrated).—Extra Prime Pork.—Clear Pork (Illustrated).—Extra Clear Pork.—Clear Back Pork.—Shoulder Butts, Lean.—Pork Loins.—Cumberland.—Short Ribs.

Fresh Meats.

Tenderloins.—Trimmings.—Spare-ribs.—The Advisability of Spreading.—What Receipts to Use to Give Meat a Good Appearance.—What Pieces Must not Be Gotten for Counter Trade.—The Handling of Spare-ribs, also Fresh and Smoked.—Meat Market Sales.

Hog Tests and Relative Values.

The Value of Tests.—What Percentage to Figure on Live Weight.—What to Figure for Cost of Manufacture.—Shrinkage When Determining Cured Yields.—Conclusion About Cutting of Hogs.

Packing and Shipping Meats.

Sizes of Boxes.—How to Pack.—Eight Sizes.—Weights They Will Contain.—Material Used.—Care to Take on the Journey.—How to Store on Board Ship.—Damage Due to Exposure.—Advantages of Having Men at Seaboard.—Cost of Packing Meats.—Average Amount of Salt Used.—How Much Borax to Use.—When to Pack in Borax, and Why.—Allowances for Shrink-Cover Cost of Borax.—Weighing Dry-Salt Meats for Export.—How to Handle Borax Meats and Dry-Salt Meats.—What Methods are Used to Keep Dry-Salt Meats Dry.—Advantage of Tight Boxes.—Points for Exporters How to Ascertain Cost and Profit.—Many Other Points of Value.

Points for Shippers of Provisions to England.

Regulations Adopted by the London Provision Trade.—American and Canadian Bacon Landed.—Pork and Heads in Barrels and Cases.—Mess Pork in Barrels of 200 pounds.—Beef in Tierces of 300 pounds.—Allowances and Terms.

Lard.—Bladders.—American Tierces.—Other Packages.—Canned (tinned) Meats.—Rules and Regulations of London Chamber of Commerce.—General Rules for Exporters.—Tolls.—Invoices.—Weights.—Agents.

Domestic Packing and Shipping.

How to Pack and Ship: Domestic Meats.—Sweet Pickled Meats.—Green Meats.—Pumping Hams pro and contra.—Lard.—Fresh Meats, Sauages.—Fertilizer.

Tables of No. 1 BOX AVERAGES Export Meats. No. 2—Tierce Averages at 300 lb. No. 3—Table of Convertible Values for Provision Exports to Great Britain.

Curing.

Elimination of Animal Heat.—Demand for Mild Cured Meats.—Temperatures.—How to Handle a Ham Pump.—Strength of Pickle.—Spread the Meats.—How Long.—What Temperature.—SOME GOOD RECIPES FOR CURING.—How Much Salt-peter, etc., to Use.—Sugar Curing.—Different Formulas and Temperatures. To Avoid "Ropey" Pickle.—How to Get Rid of It.—Rolling.—Re-piling.—Time for Curing of Different Pieces of Different Weights.—What to Draw the Pickle.—Gain in Curing.—Handling of Tierces After Drawing Pickle.—How to Pile Tierces.—Look Out for Leaks.—CURING FOR TONGUES PACKED IN BARRELS AT 220 POUNDS.—Formula.—Another Formula.—Temperature.—Another Pickle.—A Fourth Formula.—Change of Pickle; When Necessary.—Tongues for Export.—Curing of Hocks and Feet.—The Required Pickle.—Another Method.—Temperature.—Vinegar Pickle.—CURING FOR BELLIES IN

TIERCES.—Formula.—Bellies in Tubs.—Another Formula (also good for California Hams, New York Shoulders, etc.).—First-class Cure for Light Bellies for Breakfast Bacon, No. 1.—How to Handle Meats Under this Formula.—Time Necessary for Curing.—Pickle Tests.—Ickle Tanks.—How Low Pickle May Be Drawn from Tanks.—Look Out for Rats.—Tierces.—What Weight of Different Cuts to Pack Into Them.—Barrels.—Half-Barrels.—Kegs.—Gain of Weight in Pickle.—Loss of Strength in Pickle.—Do Not Use Old, Weak Pickle.—Avoid Pickle-Soaked Meats.—How to Keep Brine "Alive".—Roll All Pickled Meats Well.—Maintaining of Temperature.—"Dry" Method of Curing Tierce Meats.—WESTPHALIA HAMS.—Formula and manner of making them fully explained.

American Dry Salt Meats.

Heavy Side Meats.—How to Handle.—How to Salt and Resalt.—Bulking of Meats and Rebulking.—Backs.—Bellies.—Shoulders.—Bulk All Meats Close.—Time Necessary for Curing.—How to Figure and Determine Difference of Treatment Prior to Smoking, Between Dry-Salted Meats and Sweet Pickled Meats.—Light, Clear Sides, Extra Clear Sides; How to Put Up.—Advantages in Bulking as Clears.—A Tour Through the Cellars of the Country.—What It Discloses.—A Saving to Packers.—Great Possibilities—Meats for Export.—Handling.—Color.—Use of Salt-peter and Nitrate of Soda.—Difference Between the Use of Salt-peter and Salt.—Acquirement of Color.—How to Sprinkle Salt-peter on Meats.—How to Add Salt.—Use of the Pocket Stick.—Bulking and Rebulking.—How to Place Export Meats in Cellar.—How to Ship Export Salt Meats in Winter.—How to Obtain Color on Long-Cut Hams.—The Necessity of Tight Boxes and Close Packing.—Shipping of Backs and Bellies.

Smoke Department.

Various Theories in Reference to Best Method of Smoking Refuted.—Cold Smoking.—Quick Smoking.—What is Necessary in Order to Make Meats Which Will Stand Handling.—How to Fill the Smoke-House.—What Precautions to Take.—What Kind of Fire.—How Long—Let Your House Cool Off.—What Wood to Use.—About the Use of Sawdust.—What to Use to Give the Meat Better Appearance, and to Prevent Fleas from Touching It.—Washed Meats.—Temperature of Water.—What to Mix With It.—What the Stringer Has to Do.—Usages in the British Islands.—Meat-Washing Machines.—Appetizing Meats in Bacon Shops in England.—To Make them Look So.—Room for Improvement in the Handling of Smoked Meats.—Improved Methods Compared to Former Years.—Smoking in Summer.—Do not Handle Meats Any More than Necessary.—Do not Pile Smoked Meats.—Why.—Several Good Points.—About Handling Before Canvassing.—The Use of Borax Before Papering.—Advantages of Parchment Paper Over Straw Paper.—Canary and Yellow Wash.—How to Yellow Wash 2,500 Hams.—What to Use.—Protection of Smoke-House and Canvassing Room, Ventilators, Doors, and Windows.

PICKLES CURED MEATS.—How Long to Soak in Winter.—In Summer.—Fully Detailed.

DRY-SALT CURED MEATS.—How Long to Soak in Winter.—In Summer.—Fully Detailed.—Shorter Time with Running Water.—Putting Meats in Soak Vats.—How Full the Vats Ought to Be.—Advantages of Creating a Current.—Most Economical Arrangement for Soaking Meats.—Detailed and Explained.

Sausage Department.

Advantages of Such Department in a Packing House.—Cleanliness.—A Number of Sausage Recipes.—Fully Explained.—Pork Sausage.—Bologna.—Liver Sausage.—Head-cheese.—Tongue Sausage.—Summer

Sausage.—Beef Sausage.—German Bologna Sausage.—Ham, Chicken and Tongue Sausage.—Oxford Sausage.—Frankfort Sausage.—Roast-wurst.

Tank Department.

Importance of this Department.—Description of Tanks and Capacity.—Size of Manholes.—Location of Sane and Water Pipes and Lard Cocks.—How to Set Up a Tank.—To Avoid Loss of Life and Property.—Operation of Tanks.—How to Fill, and When.—What to Do When Tank Gets "Flushed" in Cooking.—How Long to Cook.—How Much Time to Settle.—The Use of Salt in Tank.—Drawing to Colder.—Pumping Through Filter Press of Separator.—Necessity for Quicker Cooling.—Difference in Temperatures Between Lard Drawn to Tierces and Lard Drawn to Tins.—How to Facilitate the Draining of Tank Water.—Cleaning of Coolers.—Vats and Catch Basins.—Making of "Stick".—Pressing Refuse from Tank Water.—Saving Lard from Tank Water.—What to Do With Residue.—Tight and Open Jacket Kettles.—How to Operate Each of Them.—How Long to Cook, and Under Which Pressure.—The Use of the Hasper and Agitator.—Neutral Lard.—How and Where It is Made.

PRIME STEAM LARD.—What it Should Be Made of, and How Rendered.—"Killing" and "Cutting" Lard.—How to Mix.—Wash Your Gut Lard.—Which Agent to Use in Bleaching and Purifying Rejected Lard.—In Which Proportion.—How to Recook Same.—Another Method.—Another Recipe.—Kettle-Rendered Leaf Lard.—Neutral Lard.—Kettle-Rendered Lard.—How to Make It.—Stearine Tests.—Yield of Lard Pressed for Oil.—Refined or Compound Lard.—What It is Composed Of.—Method of Manufacture.—White Grease.—Brown and Yellow Grease.—Pig's Feet.—Their Utilization as White Grease, if Not Used for Game Stock.—Where the Grease Can Be Used.—THE MELTING POINT OF LARD.—An Interesting Article on the Subject.—The Melting Point no Indication of Purity.—Methods of Determining It.—Difference of Melting Points of the Different Parts of the Animal.—Difference in Prime Steam Lard and Jacket Kettle Lard.—Disadvantages of Trying to Get Too Much of a Yield.—To Avoid Dark Colored Lard.

Gut and Casings Department.

Its Importance.—What is Paid by Dealers to Packers.—Variation of Prices.—Handling of No. 1 Guts.—Percentage of Good Guts.—Advantage of Handling Guts in the Packing House.—Handling of Bung Guts.—Salting, Drying, Packing.—Points of Interest.

CASINGS.—Soaking, Cleaning, Salting.—Quantity of Salt Allowed.—Yield per Hog.—Calculating Profits for Casings Department, 4 Months' Killing, 2 Examples.—Advantages to the Packer.

Fertilizer Department.

Dried Blood.—Concentrated Tankage or "Stick"—Percentage of Phosphate, Moisture and Ammonia.—Sample Analysis of Dried Blood, Concentrated Tankage.—No. 1 Ground Tankage.—Raw Bone Meal.—Ground Steam Bone.—Value of Dried Blood as a Fertilizer per Unit and per Ton.—Concentrated Tankage No. 2.—Ground Tankage.—How Manufactured, and What it Contains.—Raw Bone Meal.—Ground Steam Bone.

IN ADDITION to the above there are 7,000 NAMES of the following branches of the trade, wholesale trade, only:

Pork and Beef Packers.—Whole-some Butchers and Slaughterers.—Wholesale Dealers in Meats.—Wholesale Provision Dealers.—Lard Renderers and Refiners.—Oleomargarine and Butterine Manufacturers.—Tallow Renderers and Dealers.—Provision Brokers and Commission Merchants.—Cotton Seed Oil Manufacturers and Refiners.—Sausage Manufacturers (Wholesale and Retail).—Fertilizer Manufacturers and Dealers.—Soap and Candle Makers.

Any intelligent reader will see that this book is an absolute necessity to every progressive packing-house, and that each chapter in the book (which is written by experts), is fully worth the price of same, viz.: \$10. It should not be missed in any packing-house, slaughter-house, rendering plant, sausage factory, soap or fertilizer works, cotton oil mill, or any other establishment connected with or allied to the great meat and provision industries of the United States and Canada.—Send us your order.

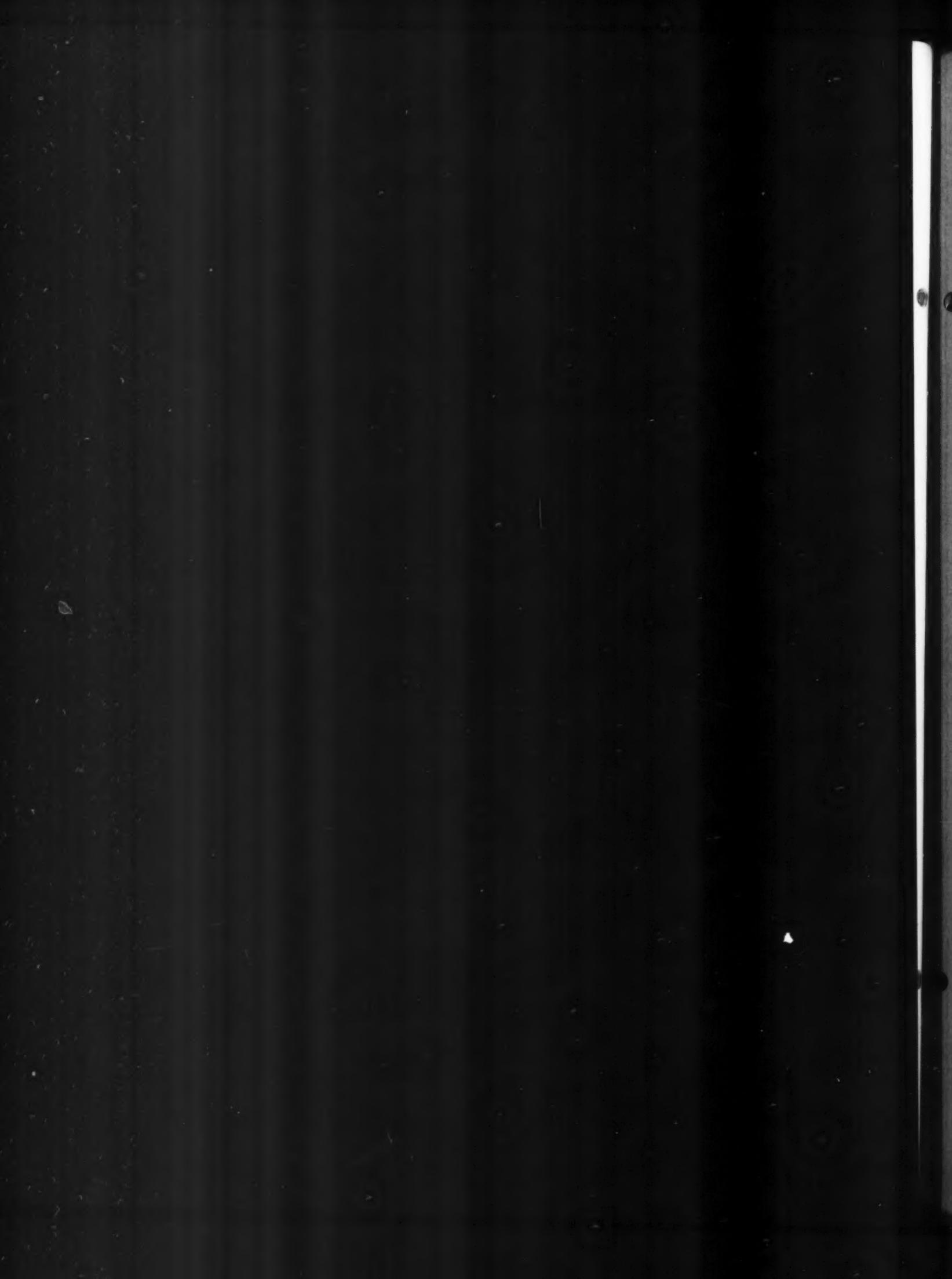
ROBERT GANZ & CO., Proprietors.

11 Rialto Building, Chicago.

284-286 Pearl Street, New York.

PACKERS' HAND-BOOK AND DIRECTORY.

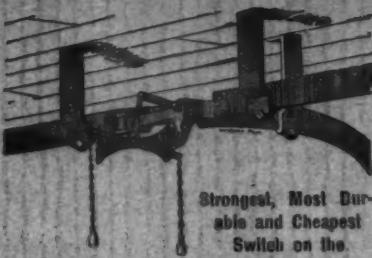




HEADQUARTERS FOR TRACKING.

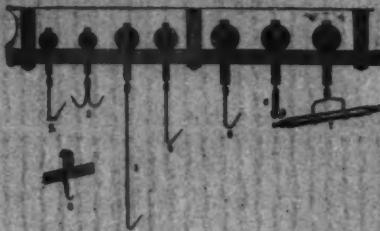


Get our Prices
on Clamp Bolt
Hangers,
320,000 in use.



Strongest, Most Dur-
able and Cheapest
Switch on the
Market.

8,700 SWITCHES USED BY LEADING PACKERS.



475,000 MOYER'S ROLLERS IN USE.

SEND FOR PRICES.
WE CANNOT BE UNDERSOLD.

J. W. MOYER, 2217 NORTH 11th STREET,
PHILADELPHIA, PA.



CALLERINE

THE IDEAL FOOD PRESERVATIVE.

For the Preservation of all kinds of Food Products, Milk, Cream and Butter, Fish, Flesh or Fowl, Fruits and Vegetables without the use of ice or any other preservative.

CALLERINE

WILL PRESERVE MEATS OF ALL KINDS.

WE GUARANTEE

CALLERINE to be entirely free from Salicylic, Boracic or Benzoic Acid, Coal Tar Products or any Salt or Compound of the same.

Certificate of Analysis.

New York, July 1, 1896.

THE CALLERINE MANUFACTURING CO.

612 Arch Street, Philadelphia, Pa.

Dear Sirs—We have analyzed and tested the preserving fluid called "CALLERINE," and have found the same to be an excellent and effective preservative for food of all kinds and to be free from harmful ingredients, and we therefore gladly endorse the use of same.

Respectfully,
THE NATIONAL PROVISIONER ANALYTICAL LABORATORY.
R. E. Stilleke, Ph.D., Chief Chemist.

THE CALLERINE MANUFACTURING COMPANY,
612 ARCH STREET, PHILADELPHIA.

\$10,000,000.00 IN GOLD

was dug out of the hills at CRIPPLE CREEK in 1896. 1897 will show a much better record and this will be contributed to very materially by

THE MUTUAL BENEFIT M. & L. CO.

whose property is situated on Globe Hill, and is surrounded by some of the largest mines in the camp. At a distance of 1350 feet from the mouth of their tunnel this company recently made

A BIG STRIKE

of pay ore, eight feet wide, from which they will commence shipping soon. We advise a purchase of this stock now before they do this for the price will then be advanced. It can be had at 5 1/4c. per share in not less than 100 share lots. Orders must be sent in at once to realize at this price.

... Address ...

The Mechem Investment Company,
Colorado Springs, Colorado.

**NECESSITIES IN
EVERY PACKING HOUSE**
THE PACIFIC COAST BORAX CO.'S
STANDARD BRANDS OF
Borax and Boracic Acid.

SEND FOR OUR PAMPHLET

GIVING HINTS ON THE USES OF BORAX AND

COR. ACID.

PACIFIC COAST BORAX CO.

263 KINZIE STREET,
Chicago.

STREET,
New York.

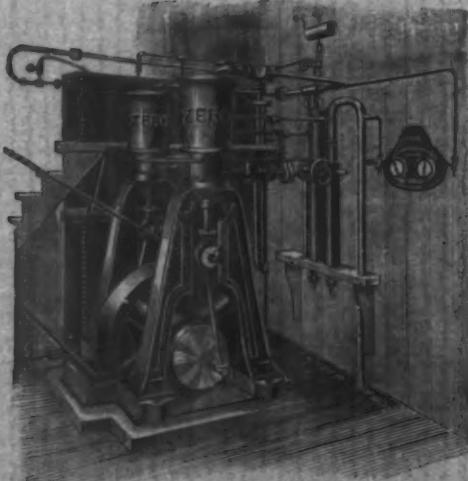
ZERO

SIMPLE

Refrigerating and Ice Machines for all purposes, of the most improved kind from one-half to 25 ton capacity.

GUARANTEED TO KEEP A UNIFORM TEMPERATURE

With New Patented Device will keep coolers refrigerated Nights, Sundays and Holidays and machine not running.



Style of a 4 to 20 ton machine.

ZERO
STRONG

OUR STRONGEST POINTS:

Every machine exceeds our guarantees.
 Can be run by any man of ordinary intelligence.
 Uses less than one-half of the water required by any other machine.
 Machines in operation show greater economy than any other machine in the world.
 Can be run by any power desired.

FOR PRICES AND OTHER PARTICULARS, ADDRESS,

**ZERO Refrigerating
Machine Co. DERBY, CONN.**

NEW YORK OFFICE,
121 LIBERTY STREET.



Style of a ½ to 8 ton machine.

ZERO
ECONOMICAL

